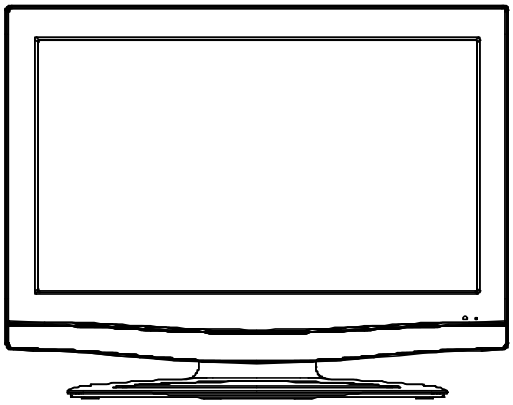
SHARP SERVICE MANUAL

S50OPLC26DV20



COMBINATION LIQUID CRYSTAL TELEVISION AND DVD/CD PLAYER

MODEL **LC-26DV200E**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENTS

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

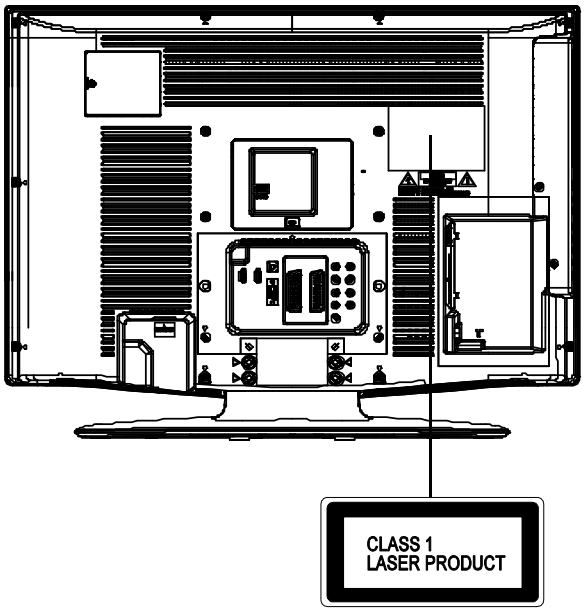
SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

IMPOTANT WARNING

CAUTION:
DVD PLAYER IS A CLASS 1 LASER PRODUCT. HOWEVER THIS PLAYER USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE PLAYER.



(Printed on the Rear Panel)

WHEN THIS PLAYER IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS PLAYER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.
Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a ⚠ mark, the designated parts must be used.

4. BE CAREFUL WITH THE LCD PANEL

Avoid a shock to the panel while servicing. Take enough care to deal with it.

5. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board. The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

6. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

(INSULATION CHECK PROCEDURE)

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the eternal exposure metal **[Note 2]** should be more than 1M ohm by using the 500V insulation resistance meter **[Note 1].**
4. If the insulation resistance is less than 1M ohm, the inspection repair should be required.

[Note 1]
If you have not the 500V insulation resistance meter, use a Tester.

[Note 2]
External exposure metal: Antenna terminal
Headphone jack

HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the VERSION LETTER.)
1. MODEL NUMBER and VERSION LETTER
   The MODEL NUMBER can be found on the back of each product and the VERSION LETTER can be found at the end of the SERIAL NUMBER.
2. PART NO. and DESCRIPTION
   You can find it in your SERVICE MANUAL.

IMPORTANT

When you exchange IC and Transistor with a heat sink, apply silicon grease (YG6260M) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease.
(Old grease may cause damage to the IC and Transistor).

WHEN REPLACING DVD DECK

[When removing the DVD Deck]

Before removing Pick Up PCB and DVD MT PCB connector, the short circuit the position shown in **Fig. 1** using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.

[When installing the DVD Deck]

Remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

NOTE

- Before your operation, please read “PREPARATION OF SERVICING”.
- Use the Lead Free solder.
- Manual soldering conditions
  - Soldering temperature: 320 ± 20^{o}C
  - Soldering time: Within 3 seconds
  - Soldering combination: Sn-3.0Ag-0.5Cu
- When Soldering/Removing of solder, use the draw in equipment over the Pick Up Unit to keep the Flux smoke away from it.

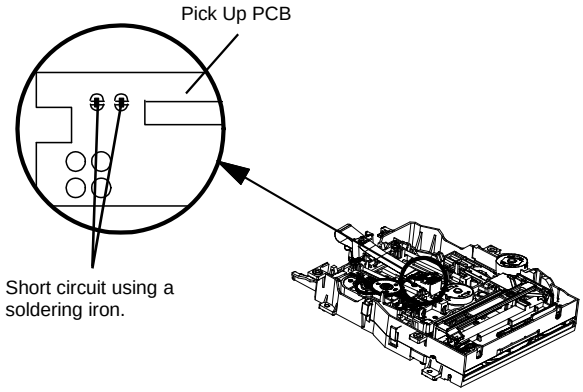


Fig. 1

PREPARATION OF SERVICING

The laser diode used for a pickup head may be destroyed with external static electricity.
Moreover, even if it is operating normally after repair, when static electricity discharge is received at the time of repair, the life of the product may be shortened.
Please perform the following measure against static electricity, be careful of destruction of a laser diode at the time of repair.

- Place the unit on a workstation equipped to protect against static electricity, such as conductive mat.
- Soldering iron with ground wire or ceramic type is used.
- A worker needs to use a ground conductive wrist strap for body.

DISC REMOVAL METHOD AT NO POWER SUPPLY

1. Remove the Stand Ass'y, Front Cabinet Ass'y and LCD Panel.
   (Refer to item 1 of the DISASSEMBLY INSTRUCTIONS.)
2. Slide the Gear Middle toward the arrow direction by hand to release the lock. **(Refer to Fig. 1)**
3. Take out the Disc from the DVD Deck. Be careful not to scratch on the Disc.

DVD Deck

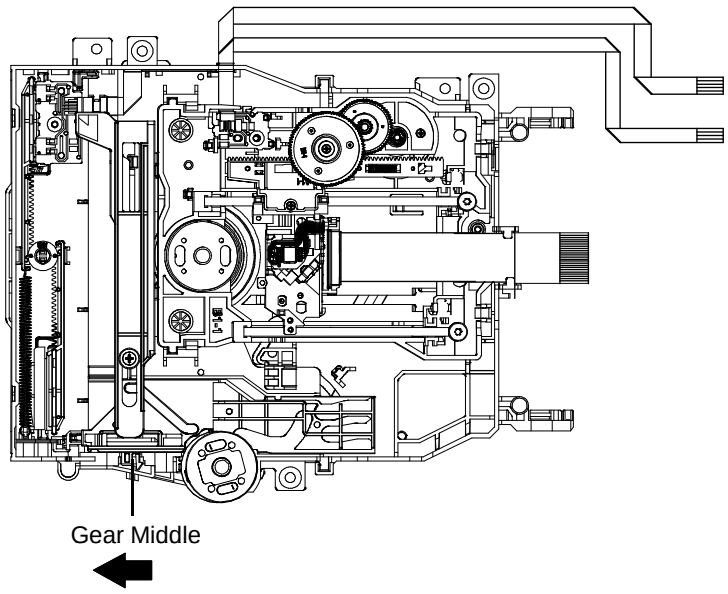


Fig. 1

PARENTAL CONTROL - RATING LEVEL
4 DIGIT PASSWORD CANCELLATION

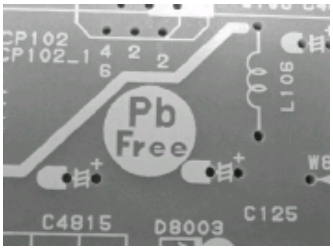
If the stored 4 digit password in the Rating Level menu needs to be cancelled, please follow the steps below.

1. Turn Unit ON.
2. Set the DVD to the Stop Mode.
3. Check that “No disc” is displayed on the screen.
4. Press and hold the “STOP” button on the side panel.
5. Simultaneously press and hold the “7” key on the remote control unit.
6. Hold both keys for more than 2 seconds.
7. The On Screen Display message “PASSWORD CLEAR” will appear.
8. The 4 digit password has now been cleared.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF printing on the PCB.
(Please refer to figures.)



Caution:

- Pb free solder has a higher melting point than standard solder;
  Typically the melting point is 86°F~104°F(30°C~40°C) higher.
  Please use a soldering iron with temperature control and adjust it to 650°F ± 20°F (350°C ± 10°C).
  In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).
- All products with the printed circuit board with PbF printing must be serviced with lead free solder.
  When soldering or unsoldering, completely remove all of the solder from the pins or solder area,
  and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

Recommendations

Recommended lead free solder composition is Sn-3.0Ag-0.5Cu.

HOTEL MODE FUNCTION

To set the Hotel mode, please follow the steps below.

1. Press the MENU---> 0027 button on the remote control.
2. The Hotel mode setting menu will appear.
3. Using the UP/DOWN button on the remote control, select the desired mode. Then press the ENTER button.
4. Using the LEFT/RIGHT button on the remote control, set the mode to desired setting.
5. The Hotel mode has now been set up.

To reset the Hotel mode, please follow the steps below.

1. Press the MENU---> 0027button on the remote control.
2. The Hotel mode setting menu will appear.
3. Using the UP/DOWN button on the remote control, select the RESET.
4. Using the LEFT/RIGHT button on the remote control, please select "OK". Then press the ENTER button.
5. The setting items has now been returned to initial value.

Setting item	Setting value	Initial value	FUNCTION
Maximum volume	0~100	100	Setting of the maximum volume value.
Panel button	RESPOND/ NO RESPOND	RESPOND	Effective/invalid setting of main key operation. (*Note 1)
Menu button			Effective/invalid setting of Menu key operation of set and remote control. (*Note 1)
Input mode start	TV/AV/ COMPONENT/ HDMI/PC/DVD/ OFF	OFF	Setting of input source at power supply On. (*Note 2)
Channel Number	All Channel	1	Channel Number tuned when starting this product can be set.
Reset	———	———	Various settings of the Hotel mode function return initial State.

Note 1) Even if setting it to "No Respond", the service mode function are effective.
Note 2) If setting it to "OFF", it start up in same input source when you turn off the power before.

GENERAL SPECIFICATIONS

G-1	**TV System**	LCD	LCD Size / Visual Size		26.01 inch / 660.5mmV
			LCD Type		Color TFT LCD
			Number of Pixels		1366(H) x 768(V)
			View Range	Left/Right	80/80 degree
				Up/Down	80/70 degree
			Bright Dot		n≦0
			Zero Bright Dot Ratio		--
		Color System			PAL / SECAM
		Speaker			2 Speaker
			Position		Front
			Size		1.6 x 4.8 inch
			Impedance		4 ohm
		Sound Output	MAX		10W + 10W
			10%(Typical)		---
		NTSC3.58+4.43 /PAL60Hz			Yes
G-2	**DVD System**	Color System			NTSC, PAL
		Disc			DVD,
		Disc Diameter			120 mm , 80 mm
		Drive			DSM-4
		Search speed	Fwd		4 step
				Actual	4, 8, 16, 32 times (DVD)
					4, 8, 16, 32 times (CD)
			Rev		4 step
				Actual	4, 8, 16, 32 times (DVD)
					4, 8, 16, 32 times (CD)
		Slow speed	Fwd		4 step
				Actual	1/16, 1/8, 1/4, 1/2 times
			Rev		4 step
				Actual	1/16, 1/8, 1/4, 1/2 times
G-3	**Tuning System**	Broadcasting System	Analog		U.K.,
			Digital		DVB-
		Tuner and	System		1Tuner (Analog+Digital)
		Receive CH	Destination		UK, I.R., CCIR Hyper+France CATV
		CH Coverage	Analog		IreE2~E4, X~Z+2, S1~S10, E5~E12,S11~S41,E21~E69
			Digital		E5~E12, ItaD~H2, Fra1~6, Rus6~12, E21~E69
		Intermediate Frequency	Analog		BG / II
				Picture(FP)	38.9 / 38.9 / 38.9 / 33.9MHz
				Sound(FS)	33.4 / 32.9 / 32.4 / 40.4MHz
				FP-FS	5.5 / 6.0 / 6.5 / 6.5MHz
			Digital		36.167MHz
		Auto Tuning Method			ALL Band (Not C.C.I.R. CH Plan)
		Preset CH			2000 Service in total of Analog and Digital.
		Stereo/Dual TV Sound			Nicam/A2 Dual
		Tuner Sound Muting			Yes
G-4	**Signal**	Video Signal	Input Level		1 V p-p/75 ohm
			Output Level		1 V p-p/75 ohm
			S/N Ratio (Weighted)		65dB
			Horizontal Resolution at DVD Mode		400 Lines
		RGB Signal	Output Level		--
		Audio Signal	Input Level		-8.0dBm/50k ohm
			Output Level	at DVD	-12.0dBm/1k ohm (-20dBFs 0dBFs=2.0Vrms)
				at TV	-8 dBm/1k ohm (0dBm=0.775Vrms)
			Digital Output Level		0.5 V p-p/75 ohm
			S/N Ratio at DVD (Weighted)		85dB
			Harmonic Distortion		0.02% (1KHz)
			Frequency Response :	at DVD	4Hz - 22kHz
				at Video CD/SVCD	4Hz - 20kHz
				at CD	4Hz - 20kHz
G-5	**Power**	Power Source	AC		220-240V AC 50Hz
			DC		---
		Power Consumption		at AC	65 W at AC 230 V 50 Hz
				at DC	--
		Stand by (at AC)	w/ EPG Timer		--
			w/o EPG Timer		0.5 W at AC 230 V 50 Hz
			Per Year		-- kWh/Year
		Protector	Power Fuse		Yes
G-6	**Regulation**		Safety		CE(EN60065:2002+AMD.11:2008), SEMKO, HOMOLO, Ukraine Safety
			Radiation		CE
			X-Radiation		---
G-7	**Temperature**		Operation		+5°C ~ +40°C
			Storage		-20°C ~ +60°C
			Space Around Unit		100mm (4inch)
G-8	**Operating Humidity**				Less than 80% RH

GENERAL SPECIFICATIONS

G-9	**OSD Language**		(TV)	English, Spanish, German, French, Italian, Swedish Dutch, Russian, Portuguese, Turkish, Greek, Finnish Polish, Danish, Norwegian, Hungarian, Czech, Slovak Estonian, Latvian, Lithuanian, Slovenian, Ukranian
			(DVD)	English, Spanish, German, French, Italian, Swedish Dutch, Russian, Portuguese, Turkish, Greek, Finnish Polish, Danish, Norwegian, Hungarian, Czech, Slovak Estonian, Latvian, Lithuanian, Slovenian, Ukranian
G-10	**Clock and Timer**	Sleep Timer	Max Time	120 Min
			Step	10 / 20 / 30 / 40 / 50 / 60 / 90 / 120 Min
		On/Off Timer	Program(On Timer / Off Timer)	1 Program / 1 Program
		Timer Back-up (at Power Off Mode)	more than	-- Min Sec
		EPG Timer Events		--
G-11	**Remote Control**	Unit		RC-RV
		Glow in Dark Remocon		No
		Remocon Format		ORION
		Format		NEC
		Custom Code		71-8E h
		Power Source	Voltage(D.C)	3V
			UM size x pcs	UM-3 x 2 pcs
		Total Keys		47 Keys
		Keys	Power (Stand By)	Yes
			Display / (Status)	Yes
			Analog Menu	No
			Digital Menu	No
			Input Select	Yes
			DTV/ATV	Yes
			TV/DVD	Yes
			Eject	No
			Guide(EPG)	Yes
			Picture Size	Yes
			1	Yes
			2	Yes
			3	Yes
			4	Yes
			5	Yes
			6	Yes
			7	Yes
			8	Yes
			9	Yes
			0	Yes
			Sleep	No
			Mute	Yes
			Volume Up / →	No
			Volume Down / ←	No
			Volume Up	Yes
			Volume Down	Yes
			CH Down	No
			CH Up	No
			Menu / Setup	Yes
			↑	Yes
			↓	Yes
			←/Slow-	Yes
			→/Slow+	Yes
			OK / CH List	Yes
			Return	Yes
			Freeze	No
			TV/Radio	No
			Subtitle	Yes
			Audio	No
			Play	Yes
			Stop	Yes
			Pause	Yes
			Quick View	Yes
			Cancel	Yes
			DVD Menu	Yes
			Top Menu	Yes
			Repeat A-B	No
			Play Mode	Yes
			Jump	No
			Search+	No
			Search-	No

GENERAL SPECIFICATIONS

		T'TEXT Keys	TEXT / TAP / TV	Yes
			Slow+ / F.T.B	No
			Audio / F.T.B	Yes
			Slow- / Hold	No
			Freeze / Hold	Yes
			Angle / Reveal	Yes
			Zoom / Sub Page	Yes
			Red/Skip-	Yes
			Green/REV	Yes
			Yellow/FWD	Yes
			Cyan/Skip+	Yes
			CH Up / Page Up	Yes
			CH Down / Page Down	Yes
G-12	**Features**	Power On Memory		Yes
		Auto Shut Off		Yes
		Just Clock Function		No
		Game Position		No
		DNR		Yes 3D
		Comb Filter		Yes 3D
		Auto Set Up (Fast installation)	Auto tuning	Yes
			CH sort	Yes
			ATS	Yes
			Auto clock (Digital tuner)	Yes
			Plug in start	Yes
		Picture Setting(TV)	Picture Preference	Yes
			Brightness , Contrast , Color	Yes
			Tint	Yes
			Sharpness	Yes
			DNR	Yes
			Color Temperature	Yes
			Blue Back	Yes
			Backlight Control	Yes
			HDMI Mode	Yes
			DBC (Dynamic Backlight Control)	Yes
			Film Mode	No
		Picture Setting(PC)	BRIGHTNESS , CONTRAST	Yes (Connected with TV mode setting)
			HOR POSITION , VER POSITION	Yes
			PHASE , CLOCK	Yes
			AUTO ADJUST	Yes
			RED , GREEN , BLUE	Yes
			Backlight	Yes (Connected with TV mode setting)
			WXGA INPUT	No
			WVGA INPUT	No
		Audio	Tone Control (Bass/Treble/Balance)	Yes
			Surround	Yes
			Equalizer	Yes
			Speaker	Yes
			Stable Sound	No
			Audio Description	Yes
			BBE	No
			SRS WOW (SRS 3D/Focus/Tru Bass)	No
			Variable Audio Out	No
		Tuning	Auto Tuning (Analog/Digital)	Yes
			Update Scan (Analog/Digital)	Yes
			CH Skip (Analog/Digital)	Yes
			CH Sort (Analog/Digital)	Yes
			CH Edit (Analog/Digital)	Yes
			Fine Tuning (Analog)	Yes
		Lock	Panel Lock	No
			Channel Lock	Yes
			Parental Lock (Digital)	Yes
			Hotel Lock	Yes
		Screen Saver	Inversion	No
			Full White	No
			Screen Saver	No
			Static Image	No
		T'Text		Yes
			Text type	Fastext / Toptext
			Text Language	English, German, Swedish, Finnish, Hungarian, Italian, French, Portuguese, Spanish, Czech, Slovak, Polish, Estonian, Lettish, Lithuanian, Serbian, Croatian, Slovenian, Rumanian, Russian, Bulgarian, Ukrainian, Turkish, Greek, Hebrew, Arabic
		Text and Picture		Yes
		Wide Mode (AUTO/4:3/16:9/CINEMA/14:9/REAL)		Yes

GENERAL SPECIFICATIONS

CH Label			Yes
Reset TV Setting			Yes
HD Zoom			Yes
Picture Scroll (Vertical Position)			No
PFC(Power Factor circuit)			No
Freeze frame			Yes (Tuner Only)
Plug and Play			No
Power Management			Yes
No Operation Power Off			Yes
Hearing Impaired			Yes
4:3 Mode (Auto 4:3 Default)			Yes
TV Location			Yes
Scart Spec	Scart1	AV in	Yes
		AV out	Yes (A.Tuner/D.Tuner)
		S-Video in	Yes
		RGB in	Yes
	Scart2	AV in	Yes
		AV out	Yes (Monitor)
		S-Video in	Yes
		RGB in	No
Digital Text (VBI teletext)			Yes
MHEG-5			No
MHP			No
EPG (BBC type 8Days Digital tuner only)			Yes
OAD (Over Air Download)			Yes
Common Interface (Digital tuner only)			Yes
Rec Screen Status			No
Ch sorting based on Ch List (Digital/Germany only)			Yes
Rename Carrier (Digital)			No
Edit Event Timer			No
Software Update via CI Slot			No
Preference Language (Audio/Subtitle/Digital Service)(Digital)			Yes
DVB Subtitle (Digital)			Yes
Time Setup			Yes
Signal Status			Yes
Digital Out		Dolby Digital	Dolby Digital
		Dolby Digital Plus	Dolby Digital
		MPEG	PCM
		HE AAC	Dolby Digital
Decode(Down Mix)		Dolby Digital	Yes
		Dolby Digital Plus	Yes
		MPEG	Yes
		HE AAC	Yes
PC Monitor Input			Yes
		VGA (640x480)	Yes (60Hz)
		VGA (720x400)	No (Possible to Display)
		WVGA (848x480)	No
		SVGA (800x600)	Yes (60Hz)
		XGA (1024x768)	Yes (60Hz)
		WXGA (1280x768)	Yes (60Hz)
		WXGA (1280x720)	Yes (60Hz)
		WXGA (1360x768)	Yes (60Hz)
		SXGA (1280x1024)	No (Possible to Display)
		WXGA+ (1440x900)	No (Possible to Display)
		WSXGA+ (1680x1050)	No (Possible to Display)
		FULL HD (1920x1080)	No (Possible to Display)
HDMI Input			Yes
		VGA (640×480)	Yes (60Hz)
		VGA (720x400)	No (Possible to Display)
		WVGA (848x480)	No
		SVGA (800x600)	Yes (60Hz)
		XGA (1024x768)	Yes (60Hz)
		WXGA (1280x768)	Yes (60Hz)
		WXGA (1280x720)	Yes (60Hz)
		WXGA (1360x768)	Yes (60Hz)
		SXGA (1280x1024)	No (Possible to Display)
		WXGA+ (1440x900)	No (Possible to Display)
		WSXGA+ (1680x1050)	No (Possible to Display)
		FULL HD (1920x1080)	No (Possible to Display)
		720×480i (4:3)	Yes (60Hz)
		720×480i (16:9)	Yes (60Hz)
		720×480p (4:3)	Yes (60Hz)
		720×480p (16:9)	Yes (60Hz)
		720×576i (4:3)	Yes (50Hz)
		720×576i (16:9)	Yes (50Hz)
		720×576p (4:3)	Yes (50Hz)
		720×576p (16:9)	Yes (50Hz)
		1280×720p	Yes (50/60Hz)

GENERAL SPECIFICATIONS

			1920×1080i	Yes (50/60Hz)
			1920×1080p	Yes (24/50/60Hz)
			CEC(ORION Standard)	No
			Deep Color	No
			xvYCC	No
		Component Input		Yes
			720×480i (4:3)	Yes (60Hz)
			720×480i (16:9)	Yes (60Hz)
			720×480p (4:3)	Yes (60Hz)
			720×480p (16:9)	Yes (60Hz)
			720×576i (4:3)	Yes (50Hz)
			720×576i (16:9)	Yes (50Hz)
			720×576p (4:3)	Yes (50Hz)
			720×576p (16:9)	Yes (50Hz)
			1280×720p	Yes (50/60Hz)
			1920×1080i	Yes (50/60Hz)
			1920×1080p	No (Possible to Display)
		Wall Mount	Size W x H(mm)	Yes (200 x 100)
			Screw Size	M4 x 10
		Stand	Tilt	No
			Swievel	No
	Features (DVD)	Parental Lock		Yes
		Auto Power Off		No
		Video CD Playback		Yes
		SVCD Playback		Yes
		MP3 Playback		Yes
		WMA Playback		Yes
		JPEG Playback		Yes
		Fujicolor CD		Yes
		KODAK Picture CD		Yes
		Divx Playback		Yes
			DMF Support	No
		VR Format Playba		No
		USB		No
		Digital Out	Dolby Digital	Dolby Digital
			MPEG	PCM
			PCM	PCM
			DTS	Yes
		Decode(Down Mix)	Dolby Digital	Yes
			DTS	No
		Auto Retract Disc		No
		BNR		No
		Disc Navigator		Yes
		E.B.L. (Enhanced Black Level)		No
		Surround		No
		Screen Saver		No
		Tray Lock		No
		One Touch Replay		No
		CGMS-A in CC XDS		No
		Audio DAC		192kHz / 24bit
		Macrovision		Yes (No Video Out)
		Closed Caption signal in VBI (DVD Playback)		No
		Play Mode		Yes
		Audio Adjust		Yes
			Equalizer	Yes
			Dynamic Range Control	Yes
			Dialog	Yes
		Video Adjust		Yes
			Sharpness	Yes
			Brightness	Yes
			Contrast	Yes
			Gamma	Yes
			Hue	Yes
			Chroma Level	Yes
		TV Screen	4:3 (Letter Box、Pan Scan)	Yes
			16:9 (Wide)	Yes
		Audio Language		Yes
		Subtitle Language		Yes
		DVD Menu Language		Yes
		Subtitle Display		Yes
		Angle Indicator		Yes

GENERAL SPECIFICATIONS

G-13	**Accessories**	Owner's Manual		Language	English, Spanish, German, French, Italian, Swedish
					Dutch, Portuguese, Turkish, Greek, Finnish
					Polish, Danish, Norwegian, Hungarian, Czech, Slovak
					Estonian, Latvian, Lithuanian, Slovenian, Ukranian
				w/Guarantee Card	No
		Remote Control Unit			Yes
		Rod Antenna			No
				Poles	-
				Terminal	-
		Loop Antenna (W/ Antenna Change Plug)			No
				Terminal	-
		DVB-T Antenna			No
		U/V Mixer			No
		DC Car Cord (Center+)			No
		Guarantee Card			No
		Caution Sheet			No
		Repair Coupon			No
		AQUOS Care plan			No
		Warning Sheet			No
		Circuit Diagram			No
		Antenna Change Plug			No
		Service Facility List			No
		Important Safeguard			No
		Quick Set-up Sheet			Yes(23Language)
		Battery			Yes
				UM size x pcs	UM-3 x 2 pcs
				OEM Brand	No
		AC Adapter			No
		AC Cord (for AC Adapter)			No
		AC Cord			Yes
		AV Cord (2Pin-1Pin)			No
		HDMI-DVI Cable			No
		Registration Card			No
		300 ohm to 75 ohm Antenna Adapter			No
		Stand Screw???			Yes(8pcs,Wrench)
		Stand			Yes
		Frame Stand			Yes
G-14	**Interface**	Switch	Side	Power (Tact)	Yes
				System Select	No
				Main Power SW	No
				Channel Up / Play / Menu Up	Yes
				Channel Down / Stop / Menu Down	Yes
				Volume Up/Menu >	Yes
				Volume Down/Menu <	Yes
				Input Select/Enter	Yes
				Menu	Yes
				Eject	Yes
		Indicator		Power/Stand-by	Yes(GREEN / RED)
				On Timer	No
		Terminals	Rear	Video Input 1	RCA x 1 (AV3)
				Audio Input 1	RCA x 2(L/MONO, R) (AV3)
				S- Input 1	No
				Video Input 2	No
				Audio Input 2	No
				S- Input 2	No
				Video Output	No
				Audio Output	No
				Digital Audio Out (Coaxial)	Yes
				Headphone	No
				Euro Scart (21Pin)	2Scart (AV1, AV2)
				Component In	RCA x 3
				Audio Input (Component In use)	RCA x 2(L/MONO, R)
				PC Monitor Input (D-Sub)	Yes
				Audio Input	Mini Pin Jack(φ3.5), STEREO
				HDMI Input 1	Yes
				Audio Input (HDMI/DVI In use)	PC Monitor Audio Input Alternative
				HDMI Input 2	Yes
				Audio Input (HDMI/DVI In use)	No
				HDMI Input 3	No
				Audio Input (HDMI/DVI In use)	No
				USB(Software Update)	Yes
				Sub Woofer Output	No
				Diversity	No
				Ext Speaker	No
				DC Jack 12V(Center +)	No
				AC Inlet	Yes
				VHF/UHF Antenna Input	No
			Side	CI Card Slot	Yes

GENERAL SPECIFICATIONS

			Headphone	Yes
			VHF/UHF Antenna Input	DIN Type
G-15	**Set Size**		Approx. W x D x H (mm)	661 x 243 x 508
			w/o Stand,Handle Approx. W x D x H (mm)	661 x 100.5 x 462.5
G-16	**Weight**		Net Approx.	9.6kg (21.1lbs)
			Net w/o Stand,Handle Approx.	8.2kg (18.1lbs)
			Gross Approx.	13.0kg (28.9lbs)
			Gross w/Master Carton (Approx.)	--- kg (--- lbs)
G-17	**Carton**	Master Carton		No
			Content	---- Sets
			Material	-- /--
			Dimensions W x D x H(mm)	-- x -- x --
			Description of Origin	No
		Gift Box		Yes
			Material	Double/Brown
			Dimensions W x D x H(mm)	756 x 265 x 579
			Design	As per Buyer's
			Description of Origin	No
		Drop Test		Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces
			Height (cm)	48
		Container Stuffing		512 Sets/45' Trailer
		w/Pallet		No
		w/Wrapping		No
G-18	**Material**	Cabinet	Cabinet Front	PC+ABS 94V0 NON-HALOGEN
			Cabinet Rear	PS 94V0 NON-DECABROM
			Stand	PC+ABS 94V0 NON-HALOGEN
		PCB	Non-Halogen	No
			Eyelet	Yes
G-19	**Environment**	Environmental standard requirement		Green procurement of SHARP
		Pb- Free		Phase3(PHASE3A)
			Measures for Whisker	Yes
		WEEE		Yes

DISASSEMBLY INSTRUCTIONS

1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

CAUTION
Be careful not to remove the LVDS cable forcibly, because the LVDS cable may be damaged.

1-1: COVER INVERTER/COVER LVDS (Refer to Fig. 1-1)

1. Remove the screw (1).
2. Remove the Cover Inverter in the direction of arrow (A).
3. Disconnect the following connector: **(CP3803).**
4. Remove the screw (2).
5. Remove the Cover LVDS in the direction of arrow (B).
6. Release the lock of connector disconnect the following connector: **(CP2804).**

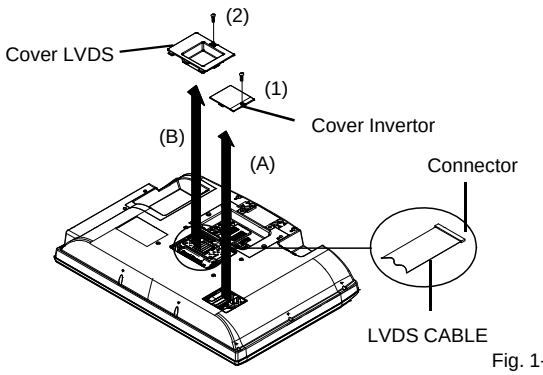


Fig. 1-1

1-2: BACK CABI ASS'Y (Refer to Fig. 1-2)

1. Remove the 13 screws (1).
2. Remove the Back Cabi Ass'y in the direction of arrow .

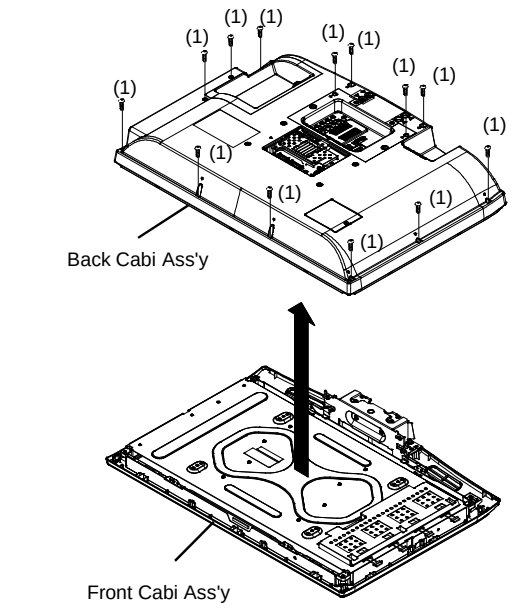


Fig. 1-2

1-3: LCD BLOCK (Refer to Fig. 1-3)

1. Remove the 2 screws (1).
2. Remove the 5 screws (2).
3. Remove the Angle-Hinge in the direction of arrow (A).
4. Remove the LCD Block in the direction of arrow (B).

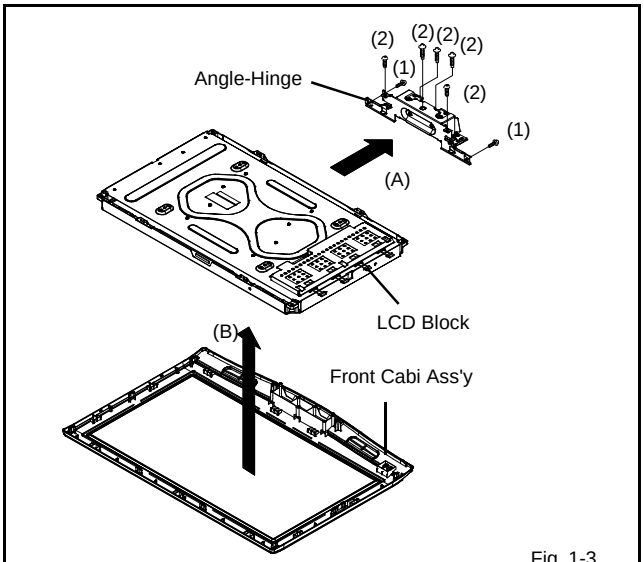


Fig. 1-3

DISASSEMBLY INSTRUCTIONS

1-4: DVD MT PCB/DVD DECK (Refer to Fig. 1-4)

1. Put the Cabinet Back Ass'y on the bottom.
2. Short circuit the position shown in Fig. 1-4 using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.
3. Disconnect the following connectors: **(CP2301, CP2302, CP2303, CP8501 and CP8502).**
4. Remove the 3 screws (1).
5. Remove the DVD DECK Ass'y in the direction of arrow (A).
6. Remove the 4 screws (2).
7. Unlock the 2 supports (3).
8. Remove the DVD MT PCB in the direction of arrow (B).
9. Remove the Shield LVDS in the direction of arrow (C).
10. Remove the Shield LVDS Bottom in the direction of arrow (D).

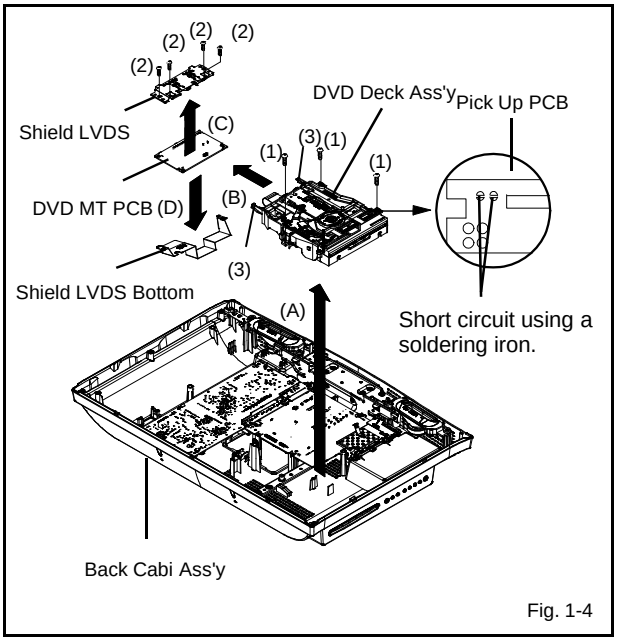


Fig. 1-4

NOTE

1. Before your operation, please read "PREPARATION OF SERVICING".
2. Use the Lead Free solder.
3. Manual soldering conditions
   - Soldering temperature: 350 ± 5°C
   - Soldering time: Within 4 seconds
   - Soldering combination: Sn-3.0Ag-0.5Cu
4. When Soldering/Removing of solder, use the drawing equipment over the Pick Up Unit to keep the Flux smoke away from it.
5. When installing the DVD Deck, remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

1-5: MAIN PCB/TUNER PCB (Refer to Fig. 1-5)

1. Put the Cabinet Back Ass'y on the bottom.
2. Remove the 2 screws (1).
3. Disconnect the following connector: **(CP5801)**.
4. Remove the Tuner PCB in the direction of arrow (A).
5. Remove the Spring Tuner in the direction of arrow (B).
6. Remove the 2 screws (2).
7. Remove the Shield Digital Bottom Ass'y in the direction of arrow (C).
8. Remove the 7 screws (3).
9. Disconnect the following connectors: **(CP301, CP2201, CP3808, CP3809 and CP4301).**
10. Remove the Main PCB in the direction of arrow (D).
11. Remove the Shield Digital-Top in the direction of arrow (E).

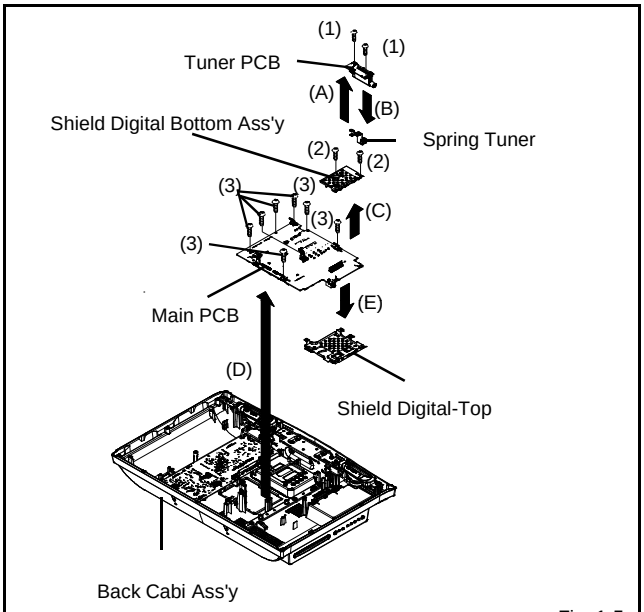


Fig. 1-5

1-6: POWER PCB/REMOCON PCB (Refer to Fig. 1-6)

1. Remove the 2 screws (1).
2. Remove the Remocon PCB in the direction of arrow (A).
3. Remove the 6 screws (2).
4. Remove the Power PCB in the direction of arrow (B).

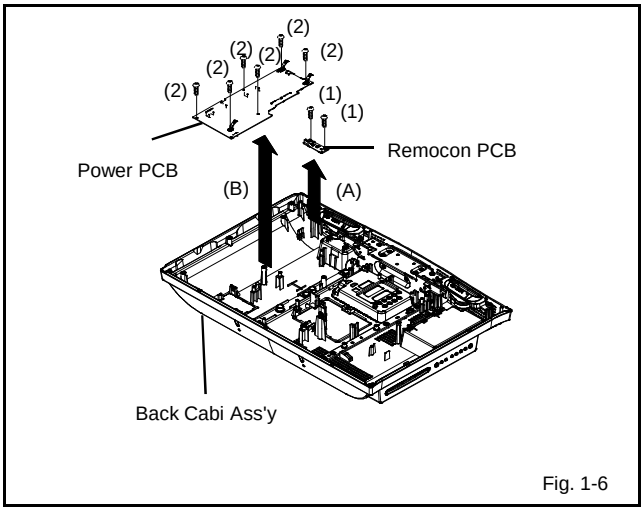


Fig. 1-6

DISASSEMBLY INSTRUCTIONS

1-7: OPERATION PCB (Refer to Fig. 1-7)

1. Push 9 supports (1).
2. Remove the Panel Side Ass'y in the direction of arrow (A).
3. Remove the 3 screws (2).
4. Remove the Operation PCB in the direction of arrow (B).

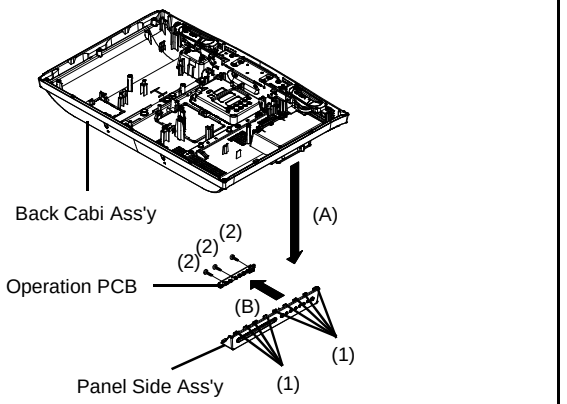


Fig. 1-7

DISASSEMBLY INSTRUCTIONS

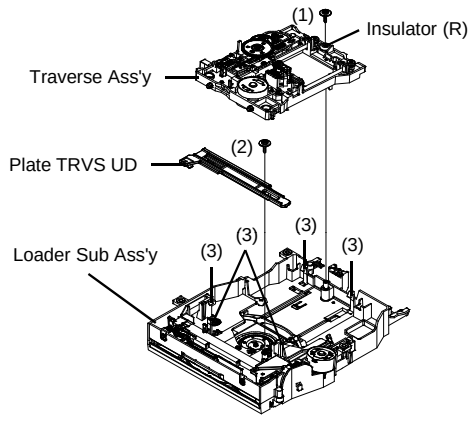
2. REMOVAL OF DVD DECK PARTS

NOTE

1. Disassemble only the DVD DECK PARTS parts listed here. Minute adjustments are needed if the disassembly is done. If the repair is needed except listed parts, replace the DVD MECHA ASS'Y.

2-1: TRAVERSE ASS'Y/LOADING MOTOR PCB ASS'Y/ PLATE TRVS UD (Refer to Fig. 2-1-A)

1. Remove the screw (1).
2. Remove the screw (2).
3. Unlock the 5 supports (3).
4. Remove the Insulator (R) from the Loader Ass'y.
5. Remove the Traverse Ass'y and Plate Trvs Ud.



• Screw Torque: 1.0 ± 0.3kgf•cm (screw(1))
• Screw Torque: 3.0 ± 0.3kgf•cm (screw(2))

Fig. 2-1-A

NOTE

1. In case of the Traverse Ass'y installation, hook the wire on the Loader Ass'y as shown Fig. 2-1-B to Fig. 2-1-C.

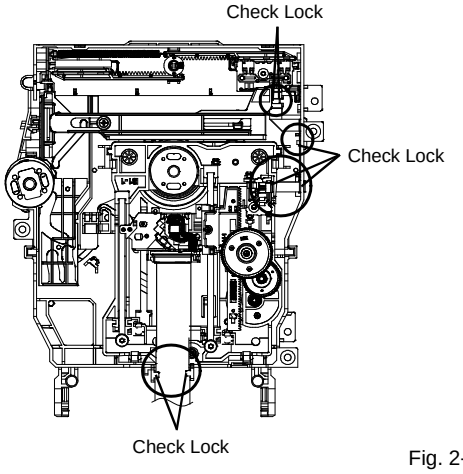


Fig. 2-1-B

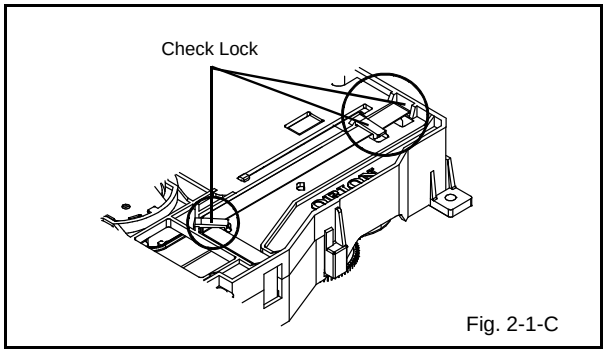
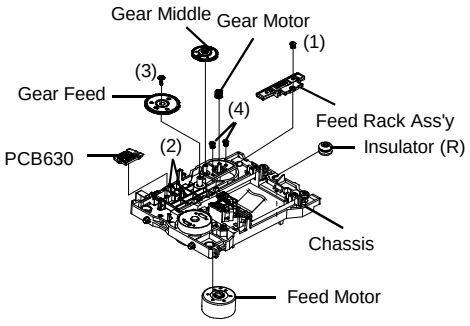


Fig. 2-1-C

2.2: INSULATOR (R)/FEED RACK ASS'Y/ PCB630/GEAR MIDDLE/GEAR FEED/ FEED MOTOR/GEAR MOTOR (Refer to Fig. 2-2-A)

1. Remove the Insulator (R).
2. Remove the screw (1).
3. Remove the Feed Rack Ass'y.
4. Unlock the 2 supports (2).
5. Remove the PCB630.
6. Remove the screw (3).
7. Remove the Gear Feed.
8. Remove the Gear Middle.
9. Remove the 2 screws (4).
10. Remove the Gear Motor.
11. Remove the Feed Motor.



• Screw Torque: 1.3 ± 0.3kgf•cm (Screw (1))
• Screw Torque: 2.5 ± 0.3kgf•cm (Screw (3))
• Screw Torque: 1.0 ± 0.3kgf•cm (Screw (4))

Fig. 2-2-A

DISASSEMBLY INSTRUCTIONS

NOTE

1. In case of the Gear Motor installation, check if the value of the Fig. 2-2-B is correct.
2. When installing the wire of the PCB630 install it correctly as Fig. 2-2-C.
   Manual soldering conditions
   • Soldering temperature: 350 ± 5°C
   • Soldering time: Within 4 seconds
   • Soldering combination: Sn-3.0Ag-0.5Cu
3. When installing the Feed Rack Ass'y, push both ends to align the teeth as shown Fig. 2-2-D. Then install it.
4. In case of the Insulator (R) installation, install correctly as Fig. 2-2-E.
5. After the assembly of the Traverse Ass'y, hook the wire on the Traverse Ass'y as shown Fig. 2-2-F.

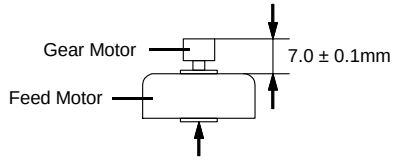


Fig. 2-2-B

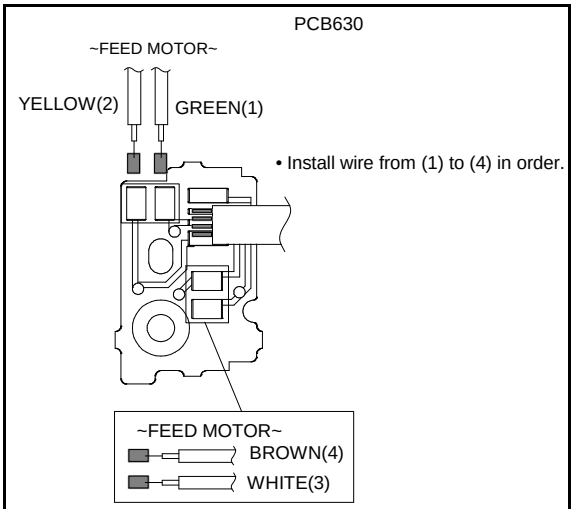


Fig. 2-2-C

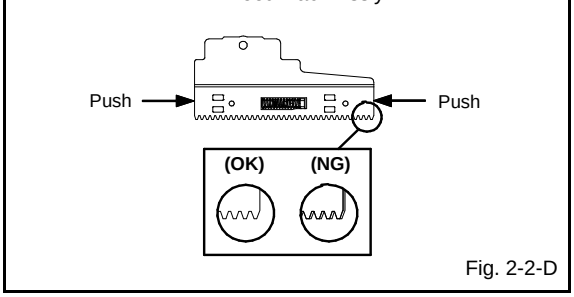


Fig. 2-2-D

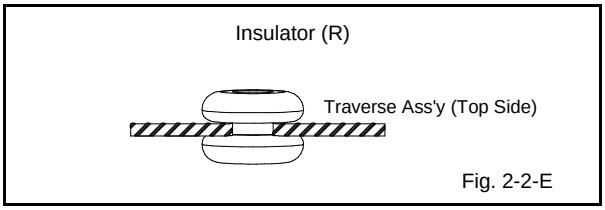


Fig. 2-2-E

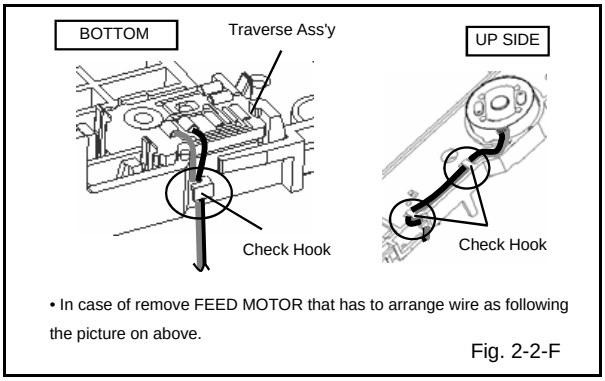


Fig. 2-2-F

2.3: GEAR ROLLER/LUMIRROR WASHER/ ROLLER CONE/SHAFT ROLLER/ LOADING MOTOR PCB/LOADING MOTOR/ GEAR WORM/RACK LEVER (Refer to Fig. 2-3-B)

1. Remove the 3 screws (1).
2. Remove the Chassis Main Ass'y.
3. Remove the Roller Ass'y.
4. Remove the Gear Roller.
5. Remove the Lumirror Washer.
6. Remove the Roller Cone.
7. Remove the Shaft Roller .
8. Remove the screw (2).
9. Remove the Loading Motor PCB Ass'y.
10. Remove the screw (3).
11. Remove the Loading Motor.
12. Remove the Gear Worm.
13. Remove the Rack Lever.

NOTE

1. When Chassis Main Ass'y is removed, it is necessary to change the position of Lever Disc and Guide Disc.
2. In case of the Chassis Main Ass'y, check position Lever Disc, Lever Guide and Boss of Rack Disc Sensor as shown Fig. 2-3-A.

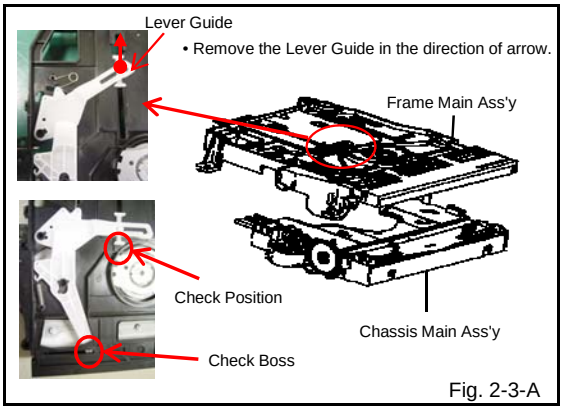
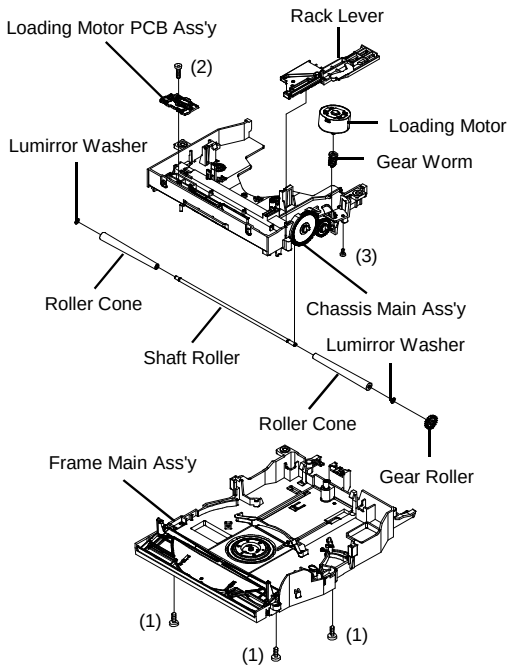


Fig. 2-3-A

DISASSEMBLY INSTRUCTIONS



• Screw Torque: 3.0 ± 0.3kgf•cm (Screw (1))
• Screw Torque: 0.8 ± 0.3kgf•cm (Screw (2))
• Screw Torque: 1.0 ± 0.3kgf•cm (Screw (3))

Fig. 2-3-B

NOTE

1. In case of the Gear Worm installation, check if the value of the Fig. 2-3-C is correct.
2. When installing the wire of the Loading Motor PCB Ass'y, install it correctly as Fig. 2-3-D.
   Manual soldering conditions
   • Soldering temperature: 350 ± 5°C
   • Soldering time: Within 4 seconds
   • Soldering combination: Sn-3.0Ag-0.5Cu
3. In case of the Roller Cone installation, install correctly as Fig. 2-3-E.
4. In case of the Lumirror Washer installation, install correctly as Fig. 2-3-F.
5. In case of the Gear Roller installation, check if the value of the Fig. 2-3-G is correct.
6. After the assembly of the Loader Sub Ass'y, hook the wire on the Loader Sub Ass'y as shown Fig. 2-3-H.

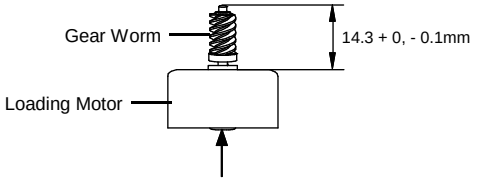


Fig. 2-3-C

Loading Motor PCB Ass'y

• Install wire from (1) to (2) in order.

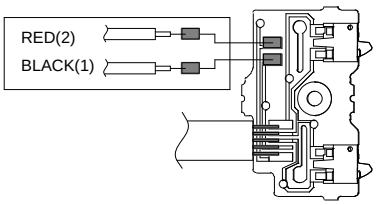


Fig. 2-3-D

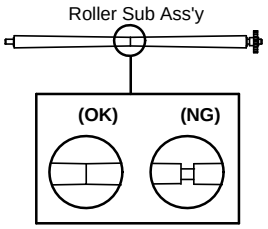


Fig. 2-3-E

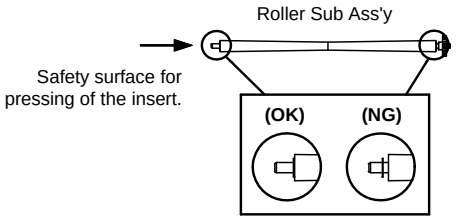


Fig. 2-3-F

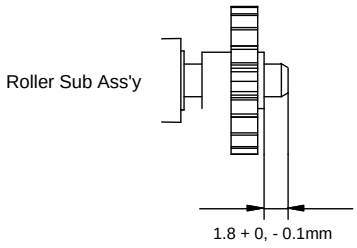


Fig. 2-3-G

Loader Sub Ass'y

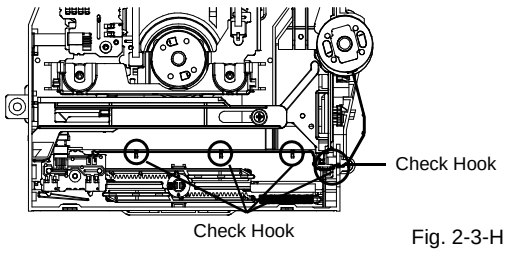
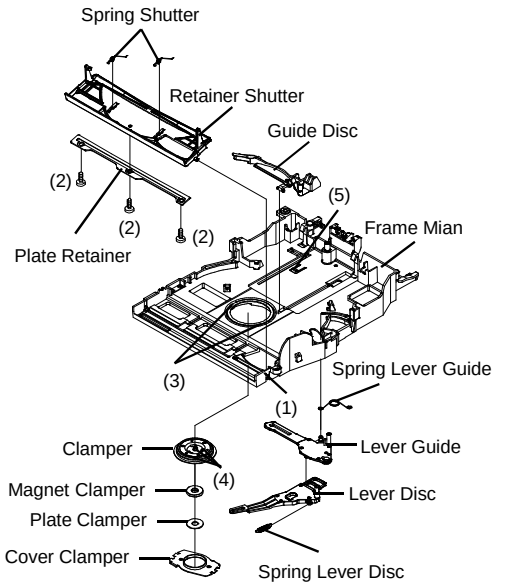


Fig. 2-3-H

DISASSEMBLY INSTRUCTIONS

2.4: SPRING SHUTTER/PLATE RETAINER/ RETAINER SHUTTER/COVER CLAMPER/ PLATE CLAMPER/MAGNET CLAMPER/ CLAMPER/GUIDE DISC/LEVER DISC/ SPRING LEVER GUIDE/SPRING LEVER DISC/ LEVER DISC (Refer to Fig. 2-4-A)

1. Unlock the support (1).
2. Remove the Retainer Shutter Ass'y.
3. Remove the Spring Shutter.
4. Remove the 3 screws (2).
5. Remove the Plate Retainer.
6. Remove the Retainer Shutter.
7. Unlock the 2 supports (3).
8. Remove the Cover Clamper.
9. Unlock the 3 supports (4).
10. Remove the Plate Clamper.
11. Remove the Magnet Clamper.
12. Remove the Clamper.
13. Unlock the support (5).
14. Remove the Guide Disc.
15. Remove the Lever Guide.
16. Remove the Spring Lever Guide.
17. Remove the Spring Lever Disc.
18. Remove the Lever Disc.



• Screw Torque: 0.7 ± 0.3kgf•cm (Screw (2))

Fig. 2-4-A

NOTE

1. In case of the Retainer Shutter Ass'y installation, check if the value of the Fig. 2-4-B is correct.
2. In case of the Clamper Ass'y installation, check if the value of the Fig. 2-4-C is correct.

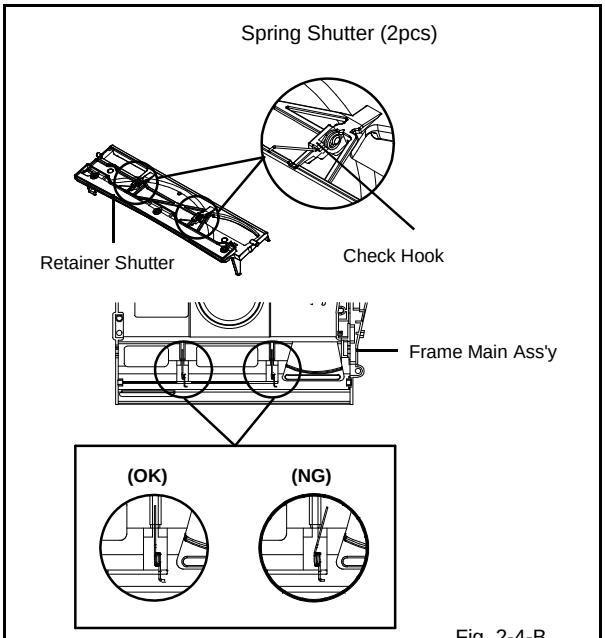


Fig. 2-4-B

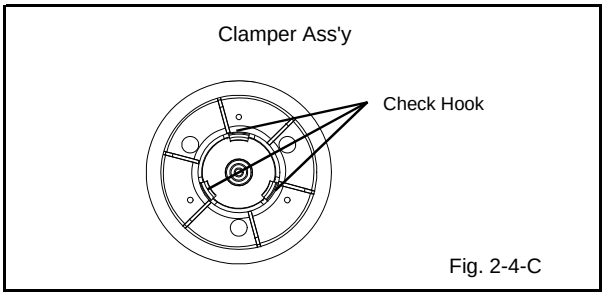


Fig. 2-4-C

2-5: FFC WIRE HANDLING

1. When installing the FFC, fold it correctly and install it as shown from Fig. 2-5-A to Fig. 2-5-D.

NOTE

1. Do not make the folding lines except the specified positions for the FFC.

[22 pin FFC]

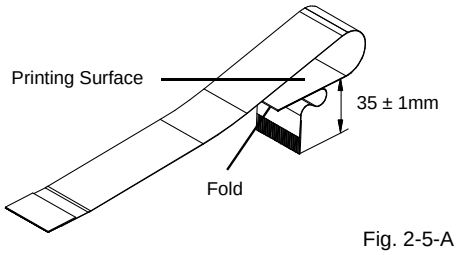


Fig. 2-5-A

DISASSEMBLY INSTRUCTIONS

Install the position (A) and (B)

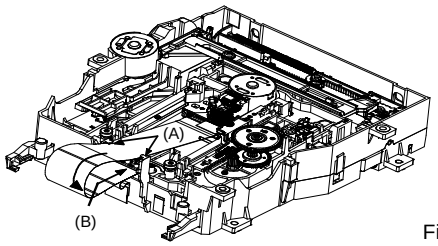


Fig. 2-5-B

[4 pin FFC]

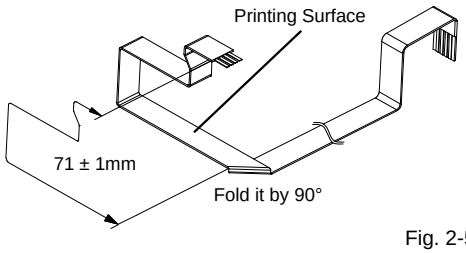


Fig. 2-5-C

[5 pin FFC]

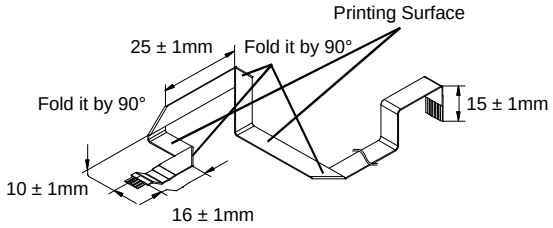


Fig. 2-5-D

DISASSEMBLY INSTRUCTIONS

3. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

1. Put Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. **(Refer to Fig. 3-1.)**

   NOTE

   Masking is carried out on all the parts located within 10 mm distance from IC leads.

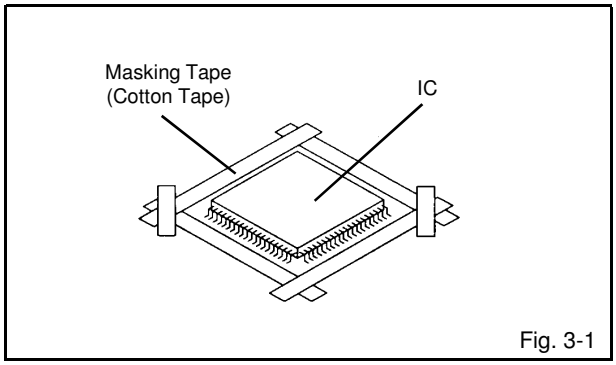


Fig. 3-1

2. Heat the IC leads using a blower type IC desoldering machine. **(Refer to Fig. 3-2.)**

   NOTE

   Do not rotate or move the IC back and forth , until IC can move back and forth easily after desoldering the leads completely.

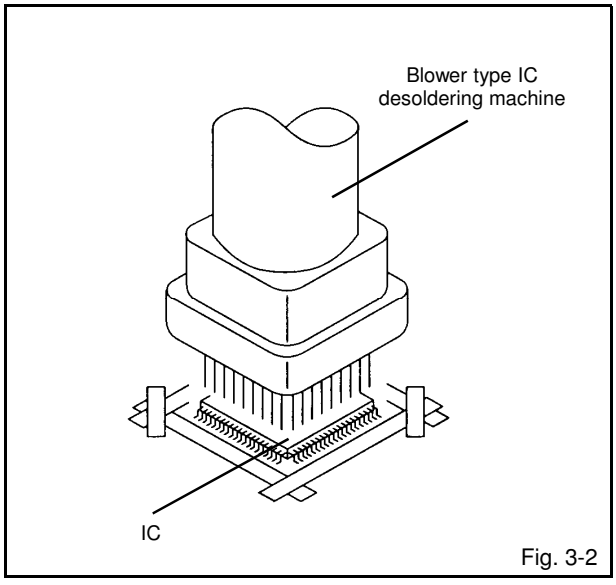


Fig. 3-2

3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using tweezers and remove the IC by moving with the IC desoldering machine. **(Refer to Fig. 3-3.)**

   NOTE

   Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.

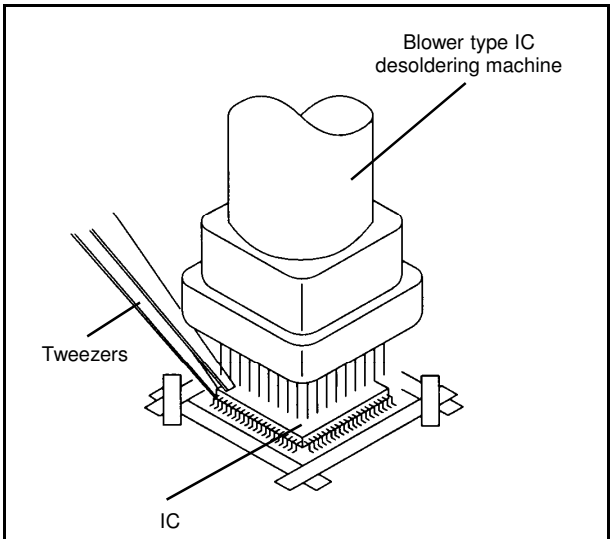


Fig. 3-3

4. Peel off the Masking Tape.

5. Absorb the solder left on the pattern using the Braided Shield Wire. **(Refer to Fig. 3-4.)**

   NOTE

   Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.

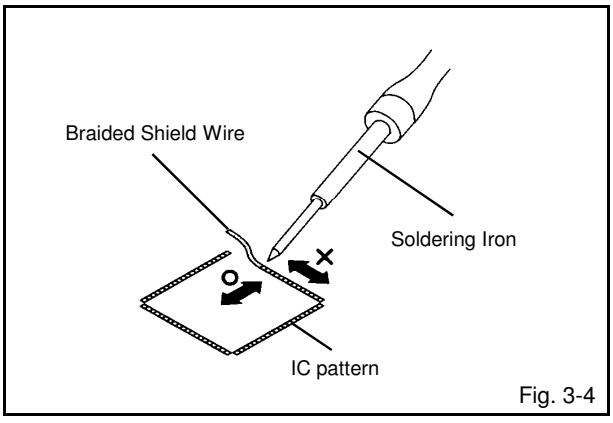


Fig. 3-4

DISASSEMBLY INSTRUCTIONS

INSTALLATION

1. Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. **(Refer to Fig. 3-5.)**

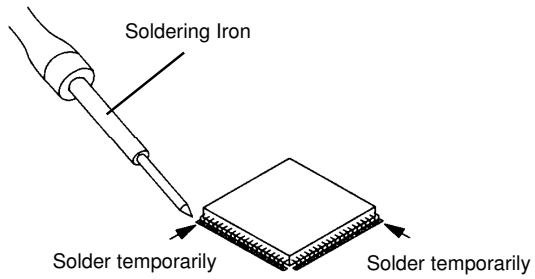


Fig. 3-5

2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. **(Refer to Fig. 3-6.)**

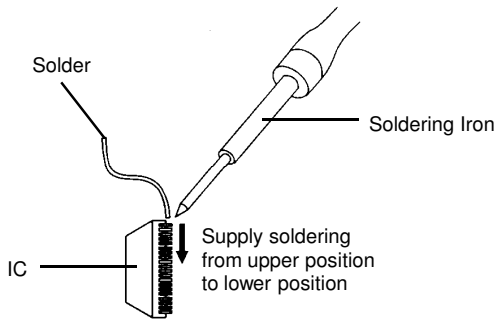


Fig. 3-6

3. Absorb the solder left on the lead using the Braided Shield Wire. **(Refer to Fig. 3-7.)**

NOTE

Do not absorb the solder to excess.

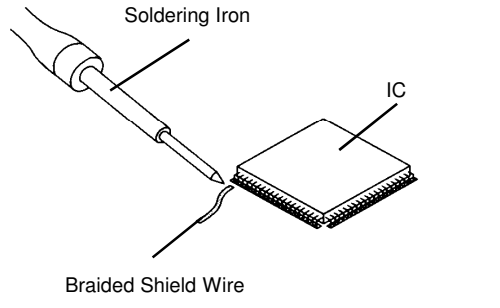


Fig. 3-7

4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. **(Refer to Fig. 3-8.)**

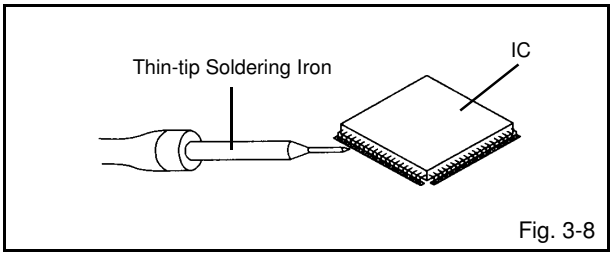


Fig. 3-8

5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass.
   Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

NOTE

When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, always be sure to replace the IC in this case.

SERVICE MODE LIST

This unit is provided with the following SERVICE MODES so you can repair, examine and adjust easily.

- Do not feel after other MENU.

1. Check of the SUM DATA and MICON VERSION on the screen.

   1-1: Press the SETUP/TV MENU ---> 0027 button on the remote control to select "Version Info".

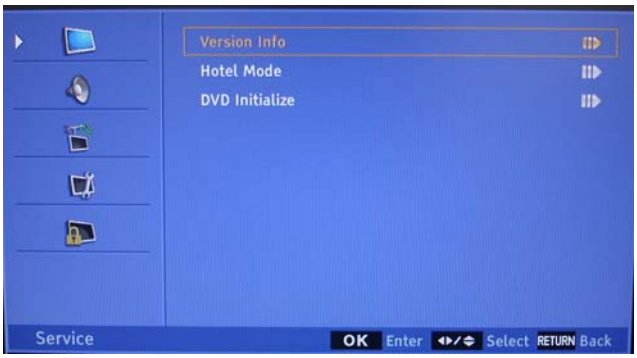


Fig. 1-1

   1-2: Press the ENTER button on the remote control.

Fig. 1-2

2. DVD Initialize Data.

   2-1: Press the SETUP/TV MENU ---> 0027 button on the remote control to select "DVD Initialize".

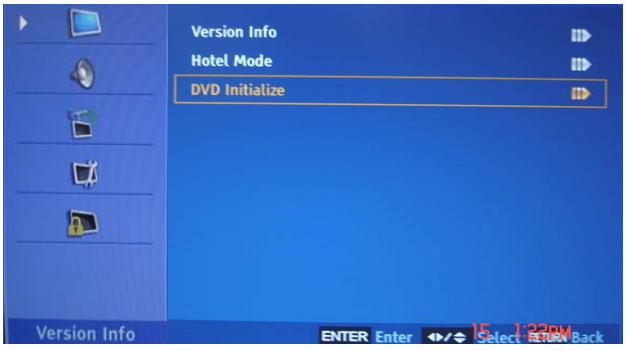


Fig. 2-1

   2-2: Press the ENTER button on the remote control to select "OK".

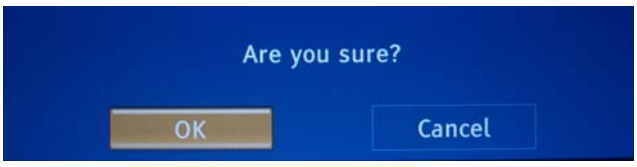
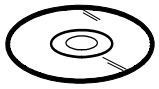


Fig. 2-2

SERVICING FIXTURES AND TOOLS

JG176 Up-Date Disc



Ref. No.	Part No.	Parts Name	Parts Name
JG176	APJG176152	Up-Date Disc	Up-Date of the Firmware

RE-WRITE FOR DVD FIRMWARE

1. Turn on the power, and set the DVD mode.

1-1: Press the SETUP/ TV MENU ---> 0027 button on the remote control to select "Initial Settings".

Fig. 1-1

1-2: Press the ENTER button on the remote control to select "Options".

Fig. 1-2

1-3: Press the button on the remote control.

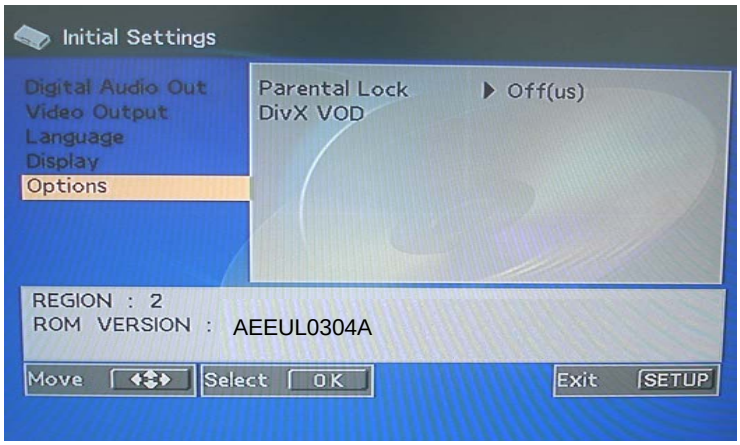


Fig. 1-3

RE-WRITE FOR DIGITAL SOFT FIRMWARE

1．Prepare for USB Memory

1. USB Memory (Figure1) used for Update is connected with PC.

Figure1：USB Memory

2. The Update software is downloaded.
3. The software is copied onto USB Memory.
4. The file name of the software copied onto USB Memory is changed. The following reference.

Before file name change：CA**Ixxxxx.bin
↓
After file name change：AppBase.bin
***change the file name by normal-width.**

Figure2：Rename for File Name

5. USB Memory is detached from PC.

2 . Update procedure

1. Target set is power on. Afterwards, the AC cord is disconnected.
2. The cover of the back of the set is detached.
3. USB Memory that copies software onto the USB connector of the set is inserted.
   *Refer to "1.Prepare for USB Memory" for the method of copying software onto USB Memory.

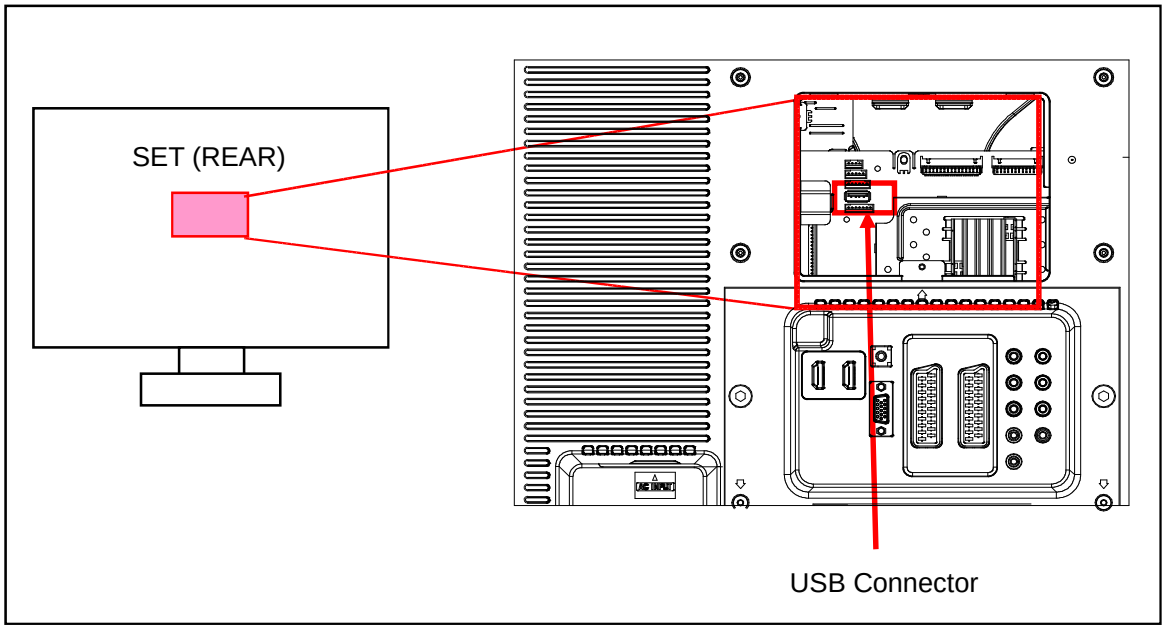


Figure3：USB Connector

4. The AC cord of the target set is inserted. The update of software starts.

   <u>while updating software.</u>

   The key is invalid while updating software.

   Attention
   Please do not pull out the AC cord while updating software.

   <u>When the update is completed</u>

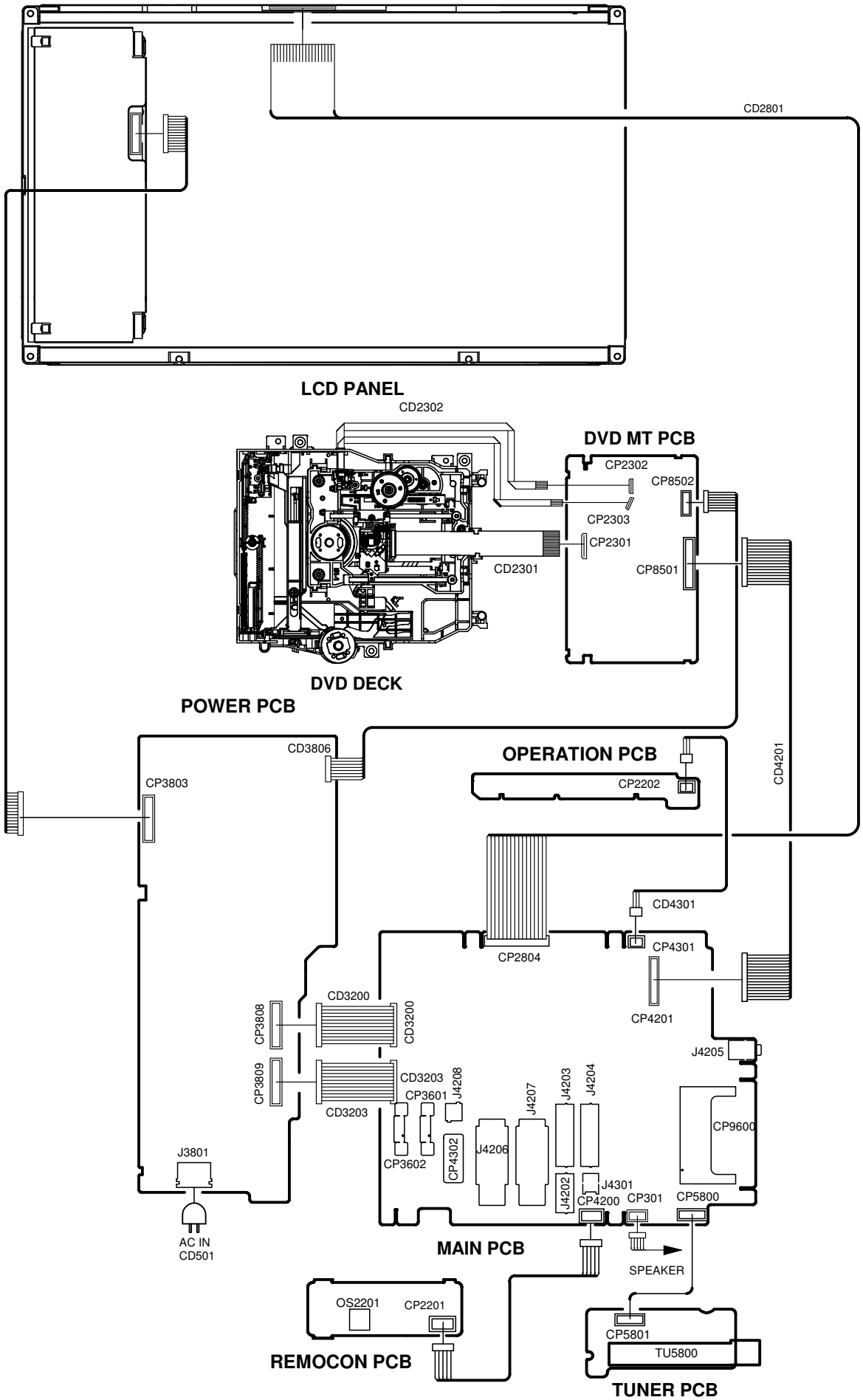
   When the update is completed, the checksum screen is displayed in the monitor.

− Attention −
The checksum screen is displayed to notify the update completion. At that time, the version before it updates it is displayed. It is not a version of the update software.

5. The AC cord of the target set is disconnected after the update is complete, and USB Memory is detached.

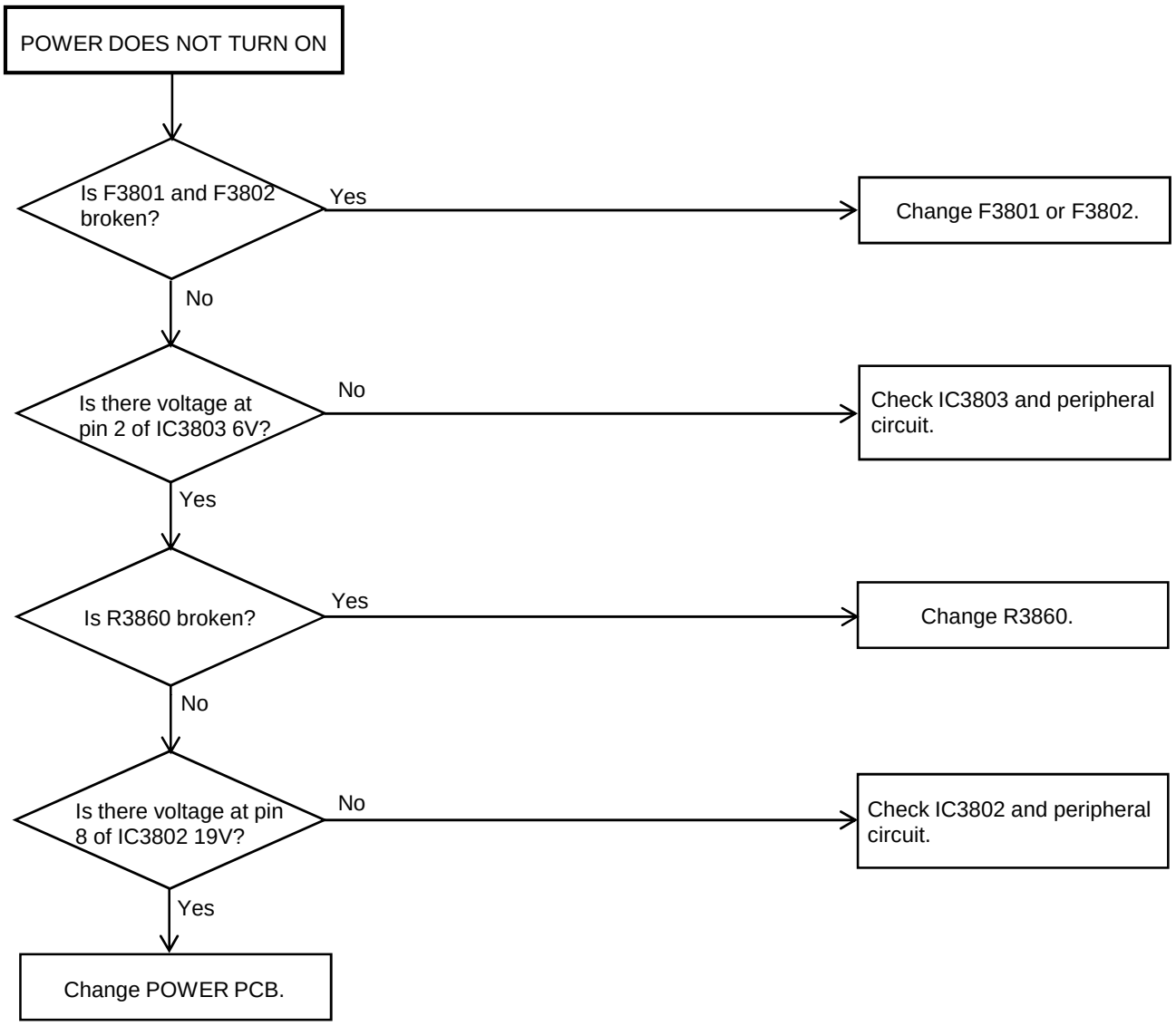
ELECTRICAL ADJUSTMENTS

3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)

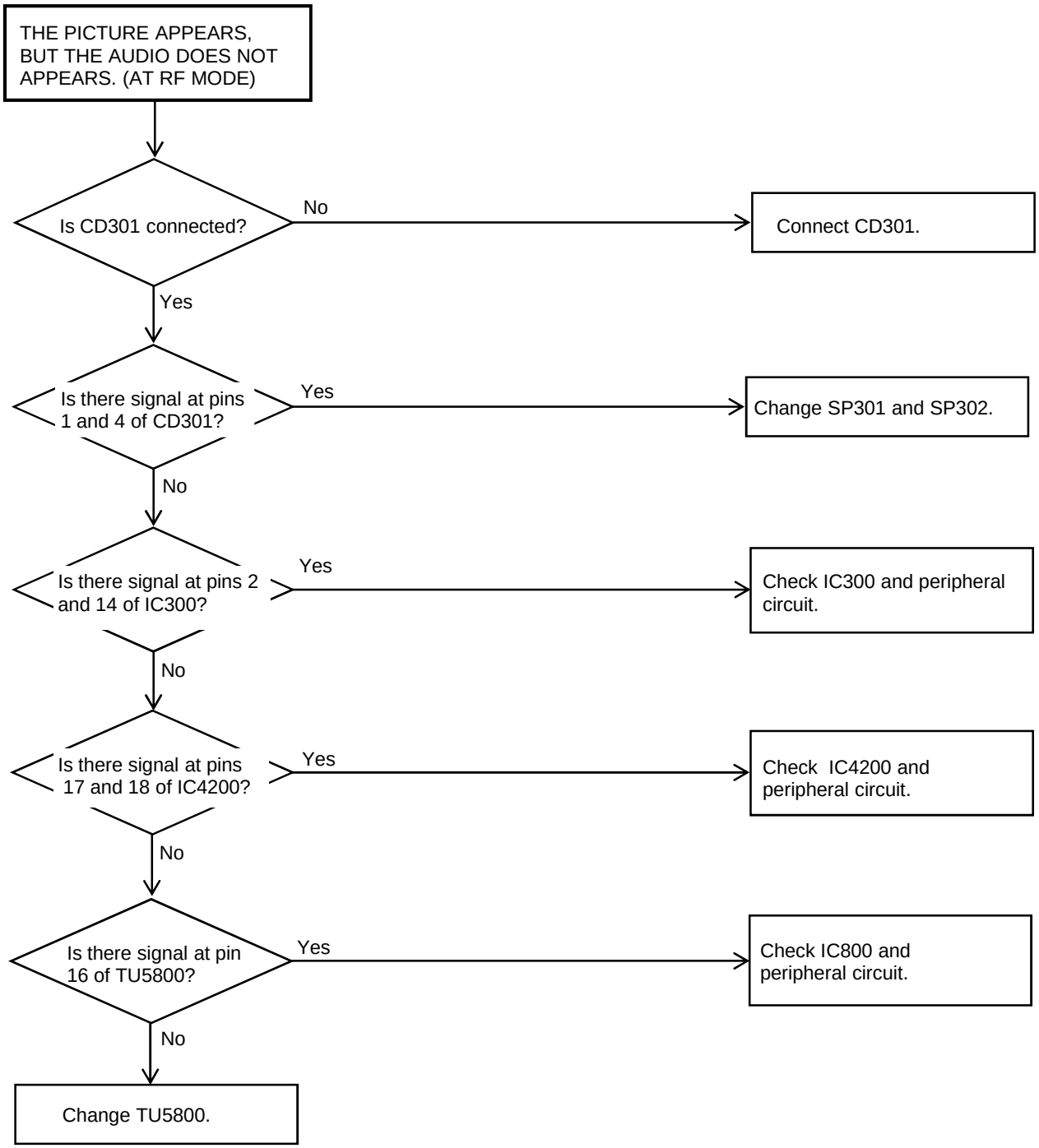


TROUBLESHOOTING GUIDE

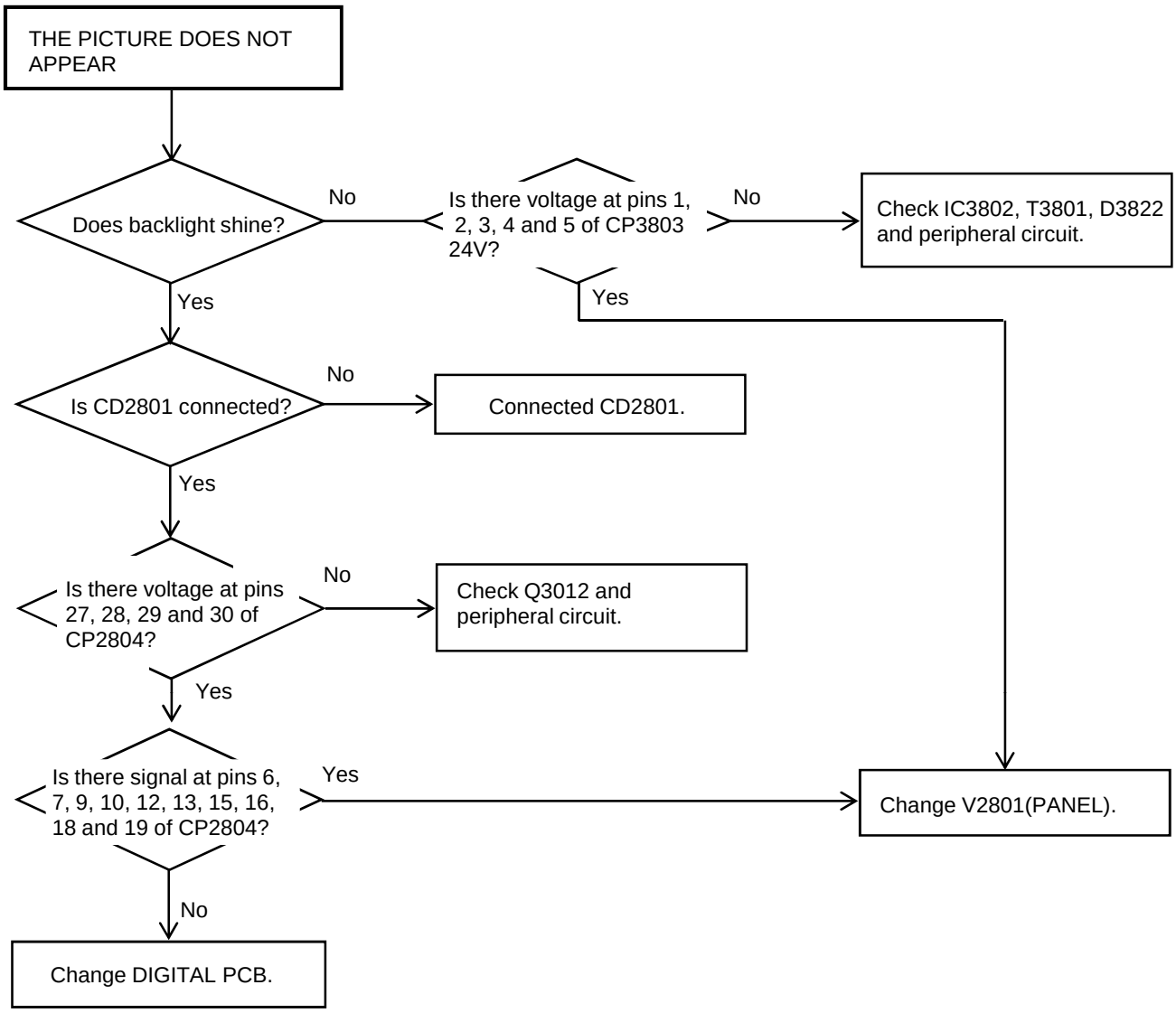
(LCD SECTION)



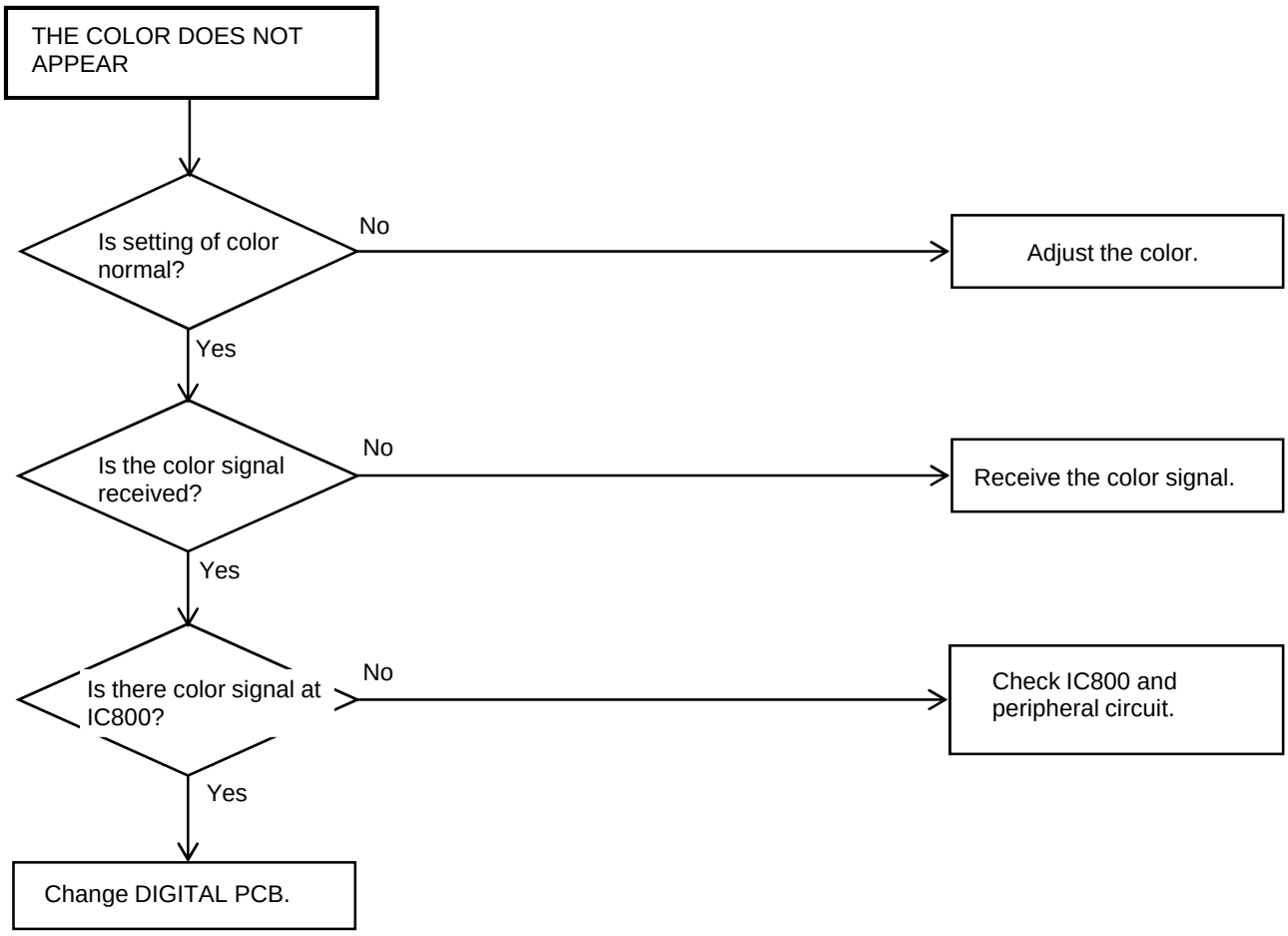
TROUBLESHOOTING GUIDE



TROUBLESHOOTING GUIDE

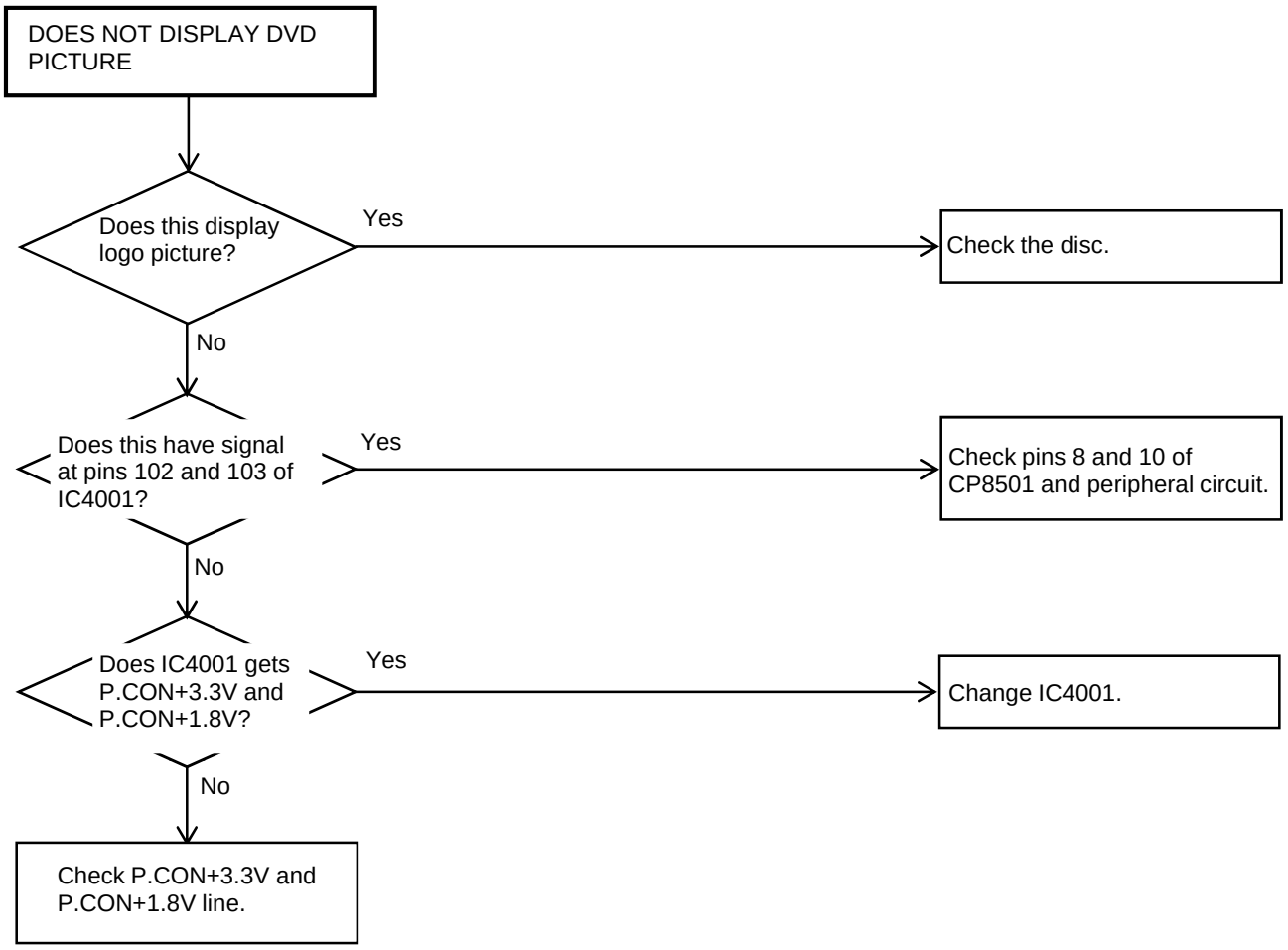


TROUBLESHOOTING GUIDE

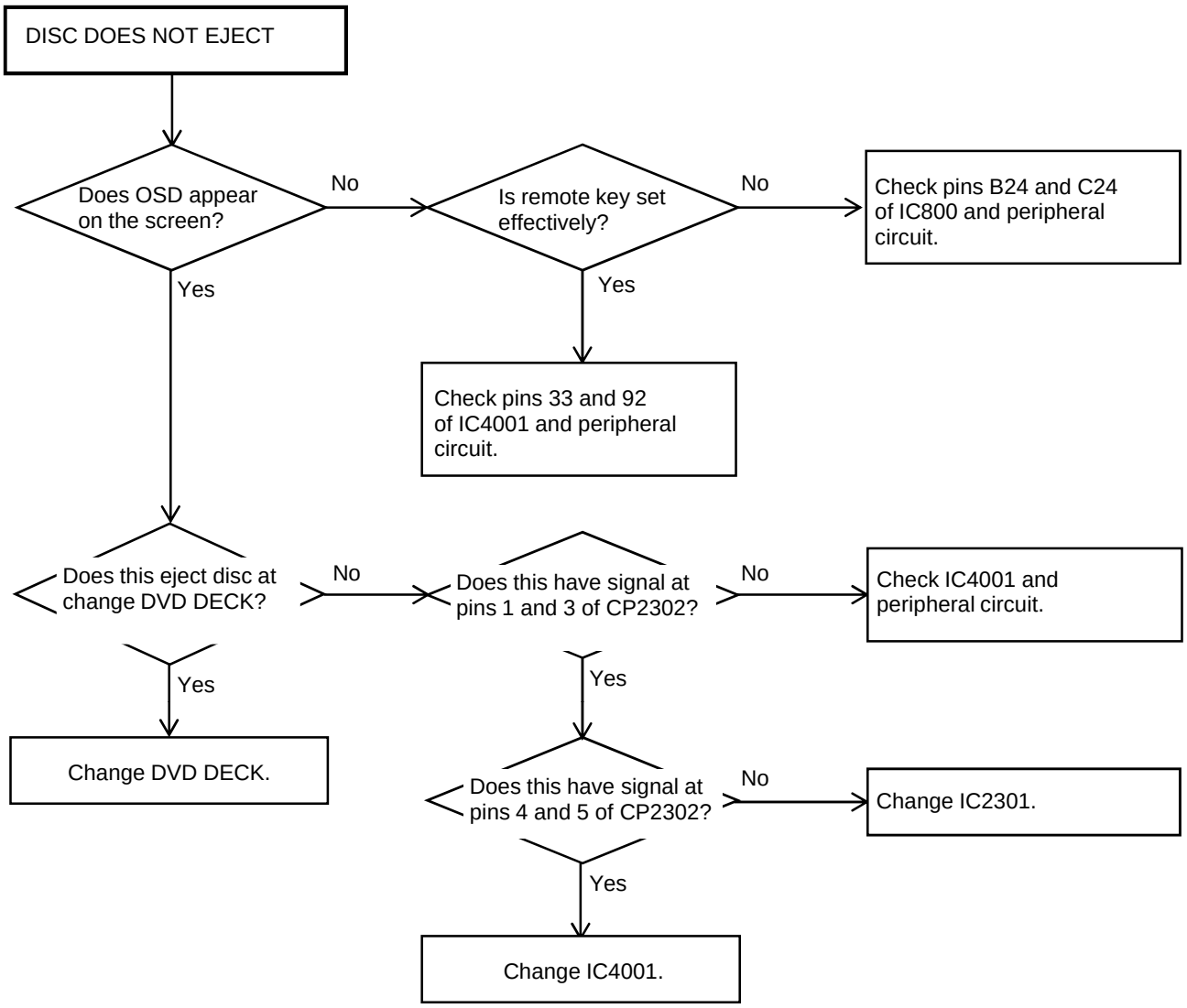


TROUBLESHOOTING GUIDE

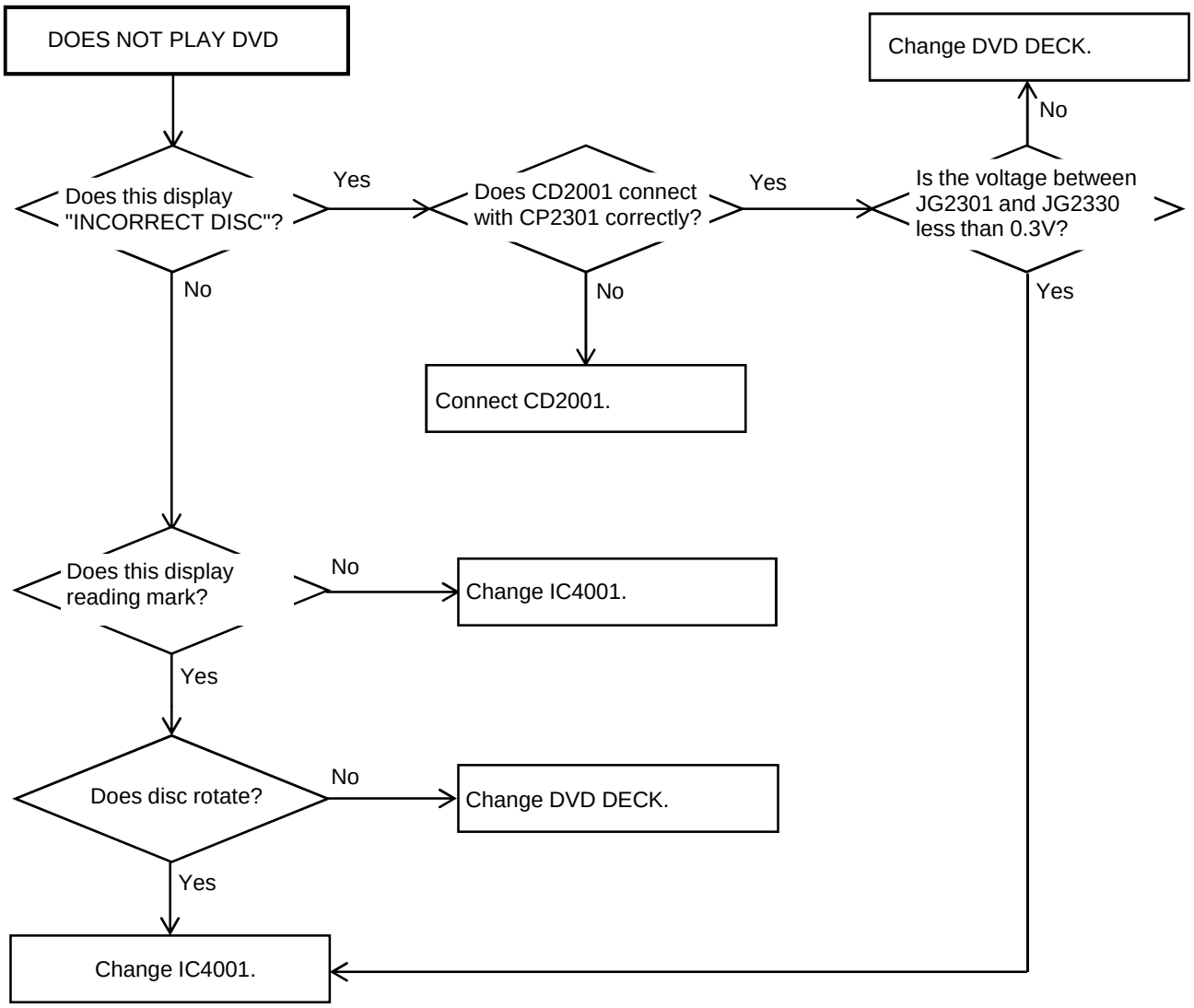
(DVD SECTION)



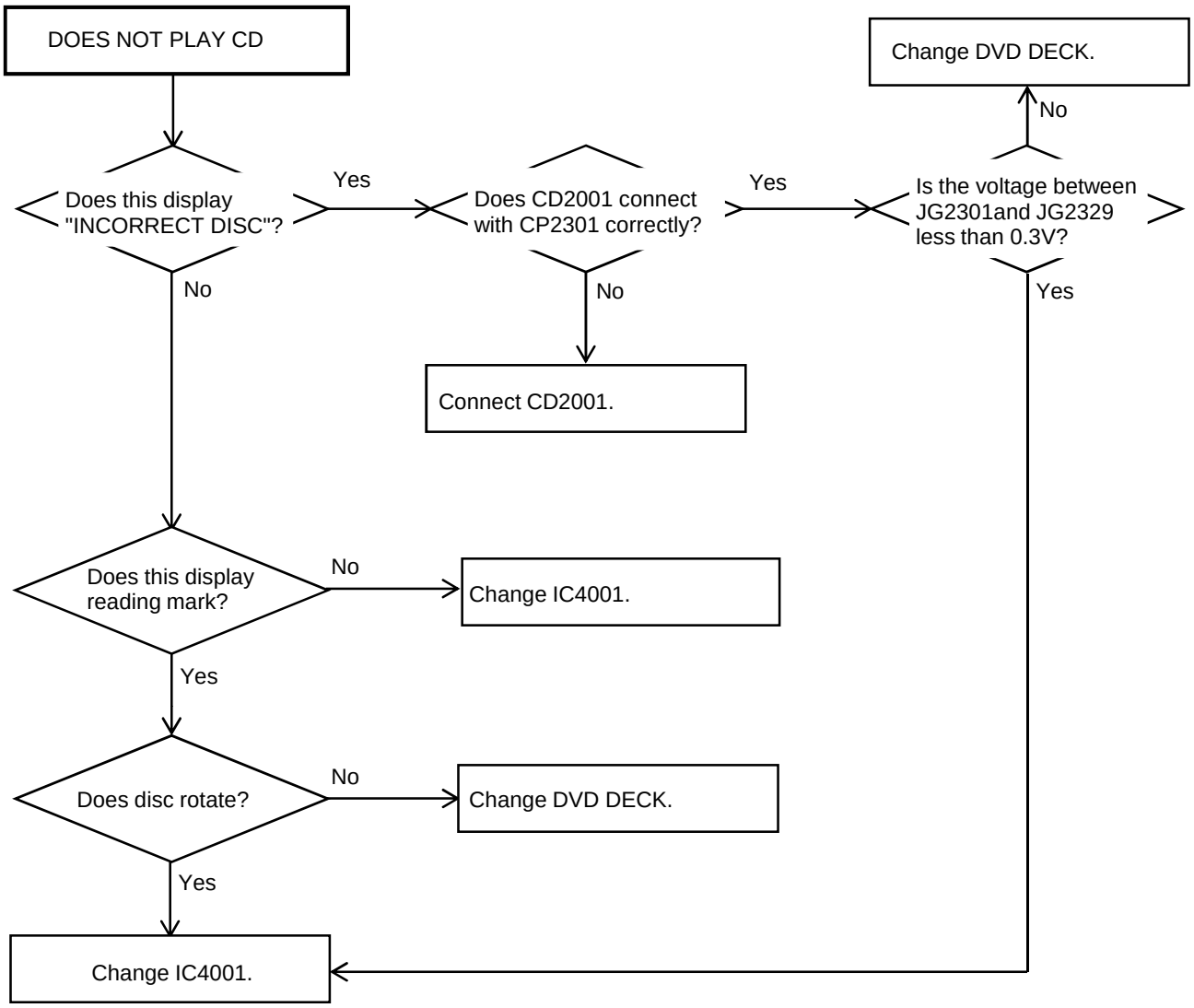
TROUBLESHOOTING GUIDE



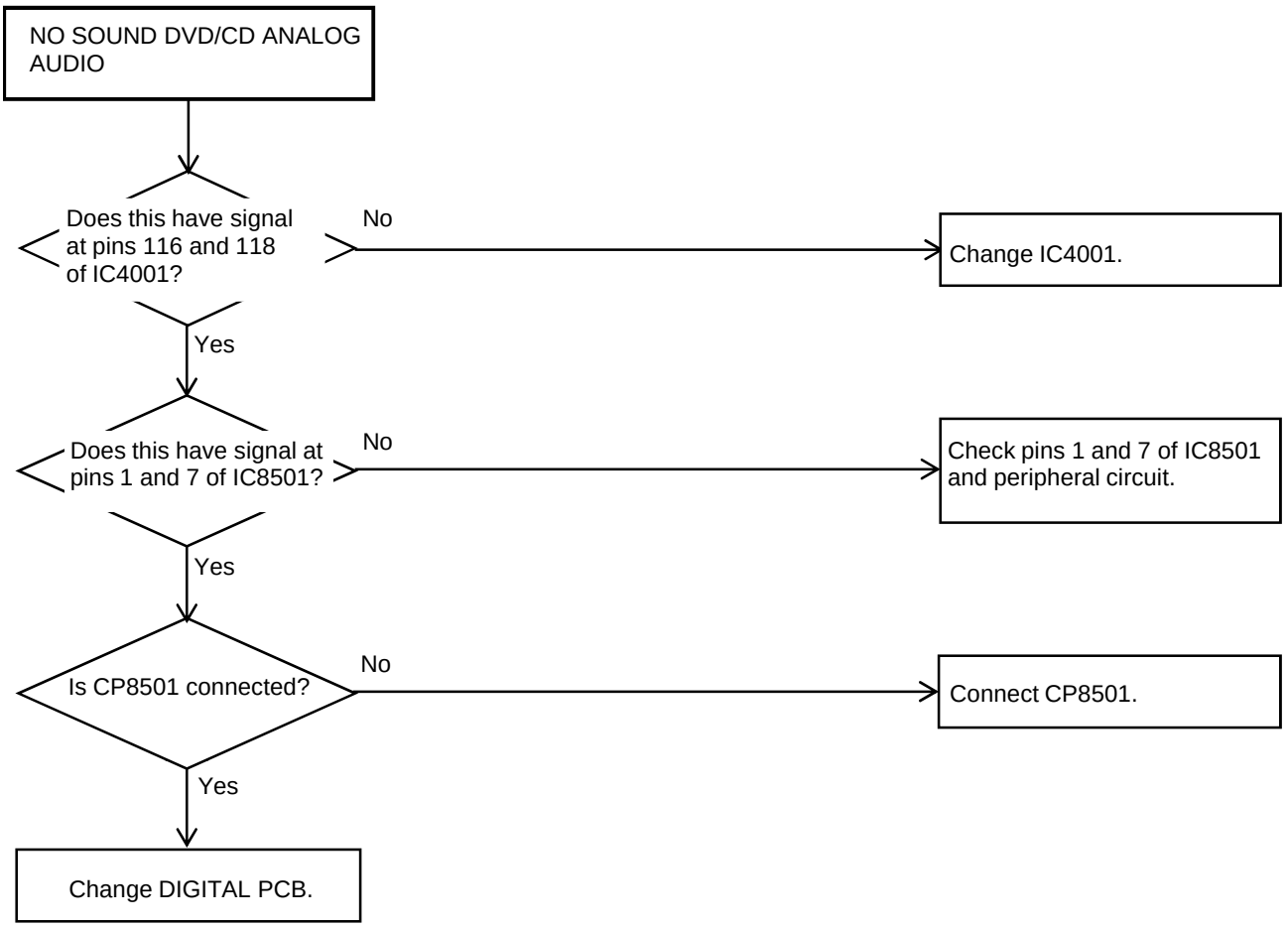
TROUBLESHOOTING GUIDE

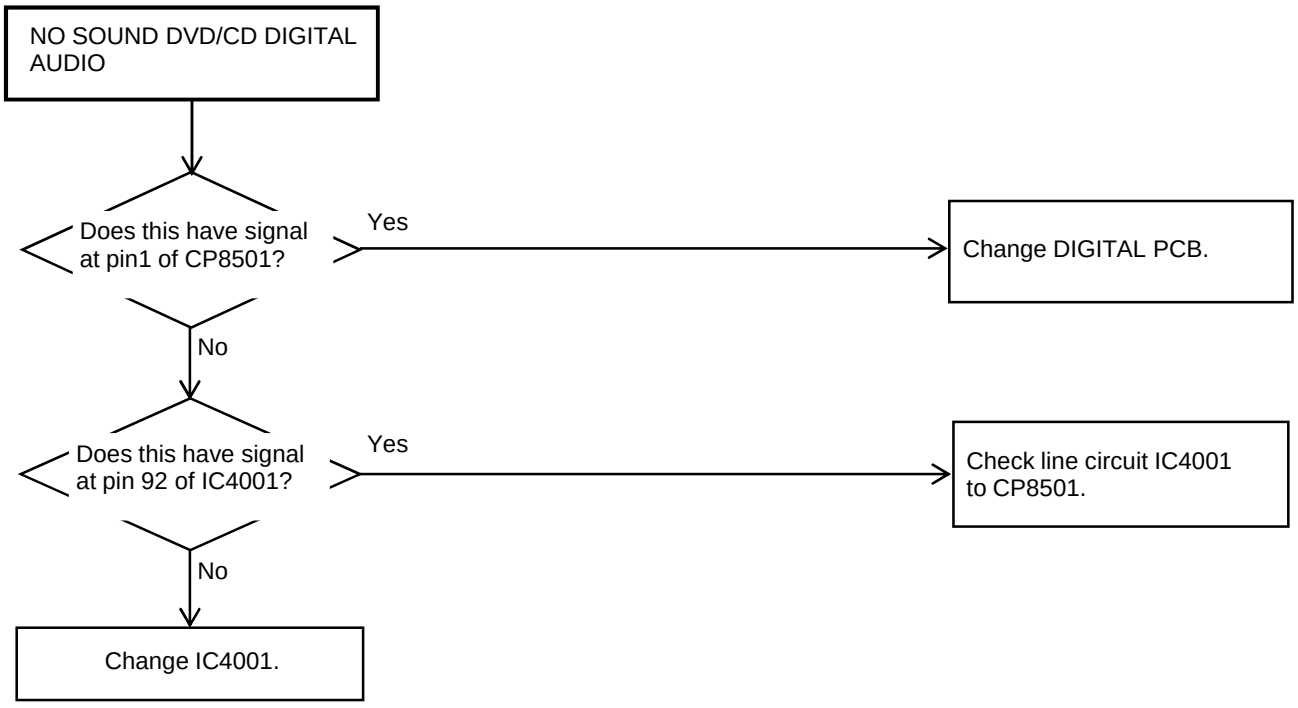


TROUBLESHOOTING GUIDE

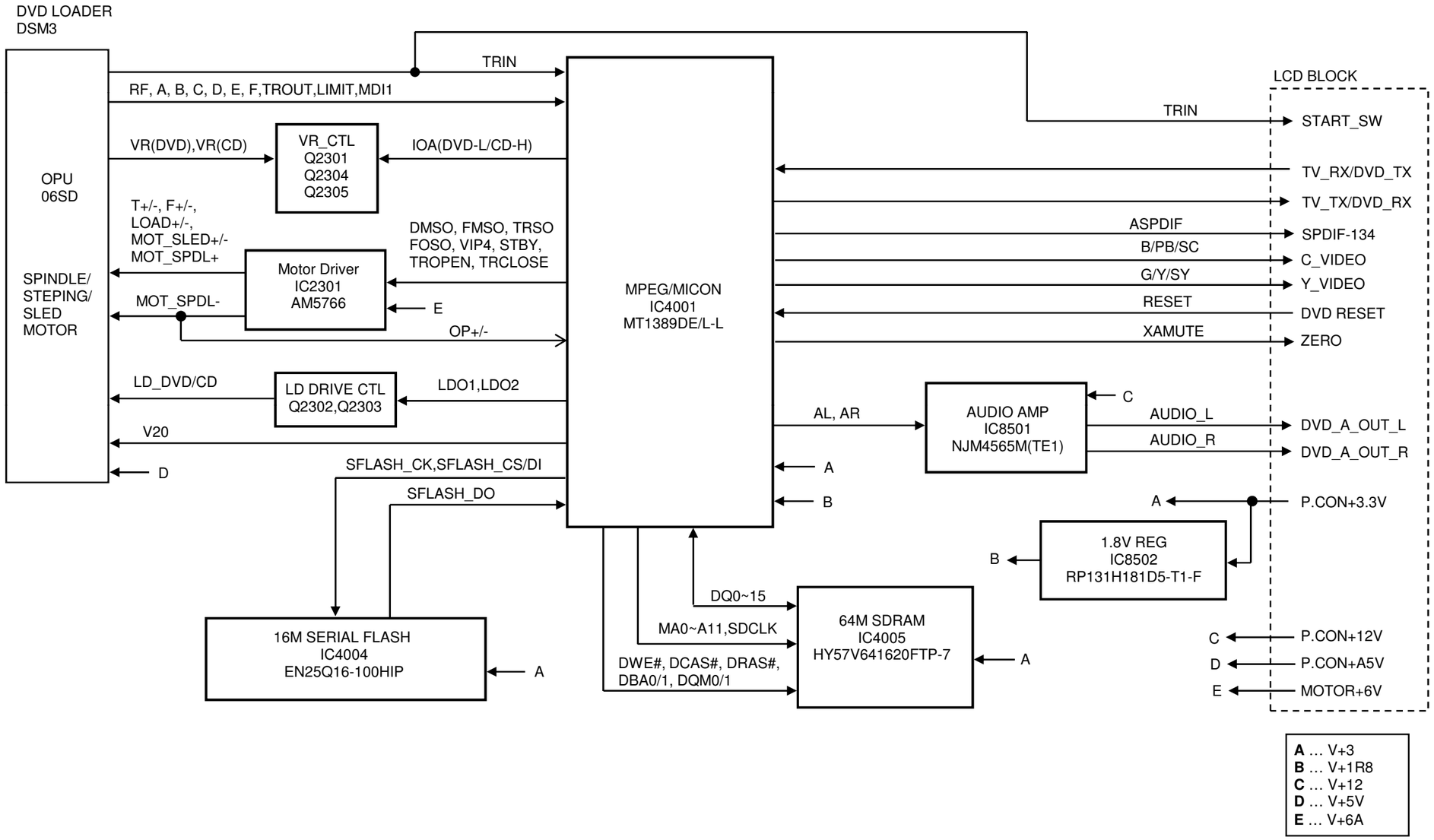


TROUBLESHOOTING GUIDE

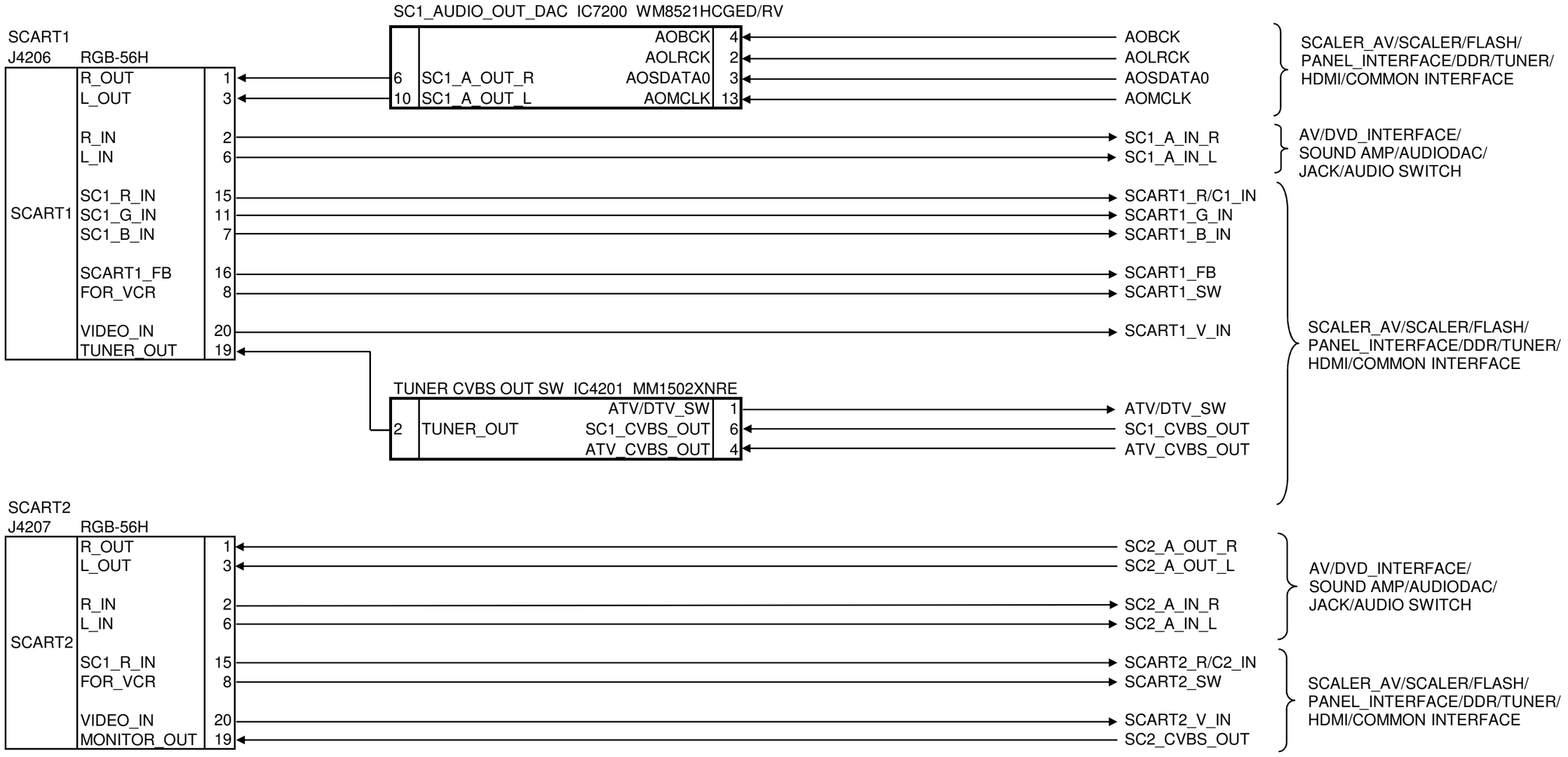




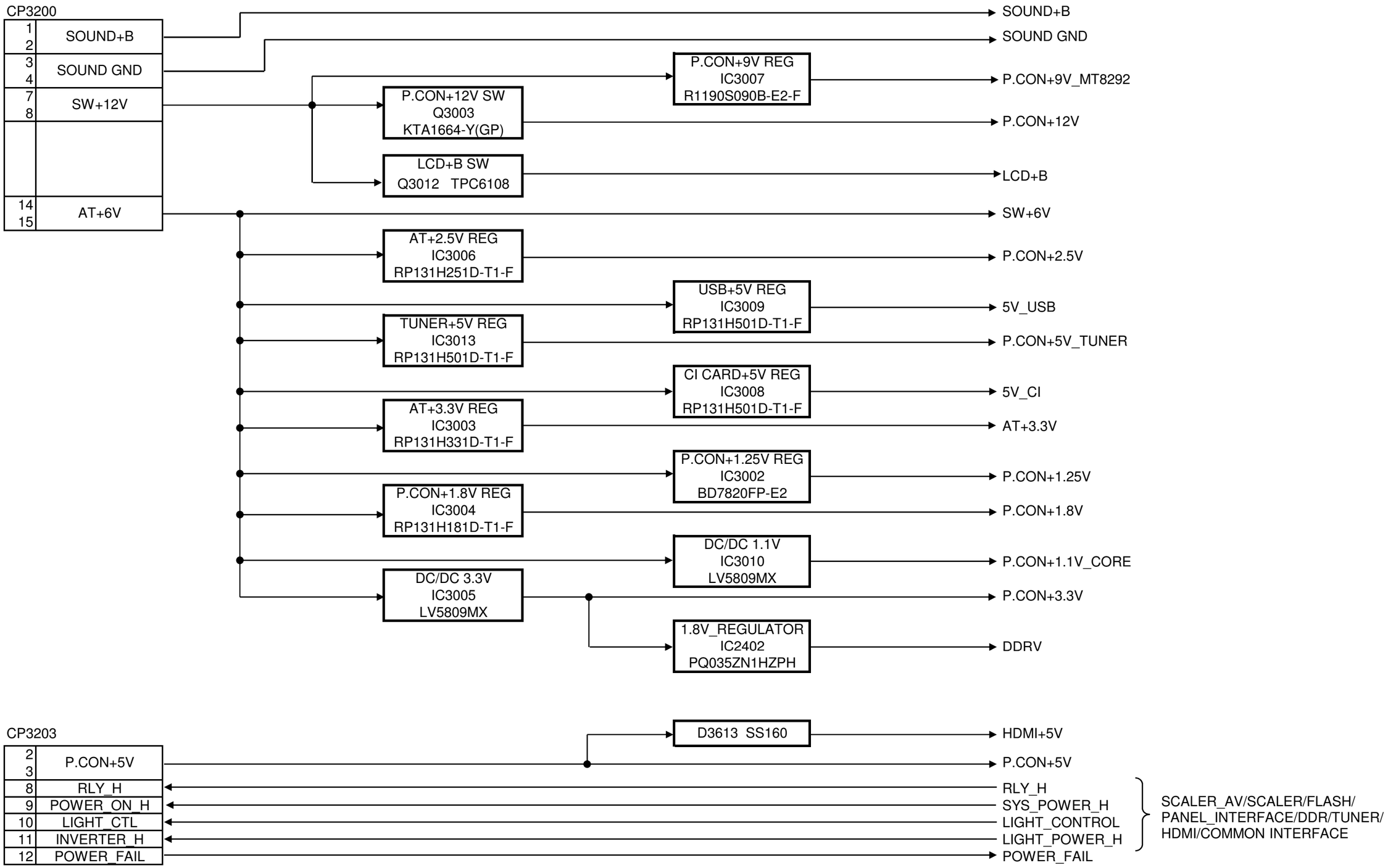
DVD BLOCK DIAGRAM



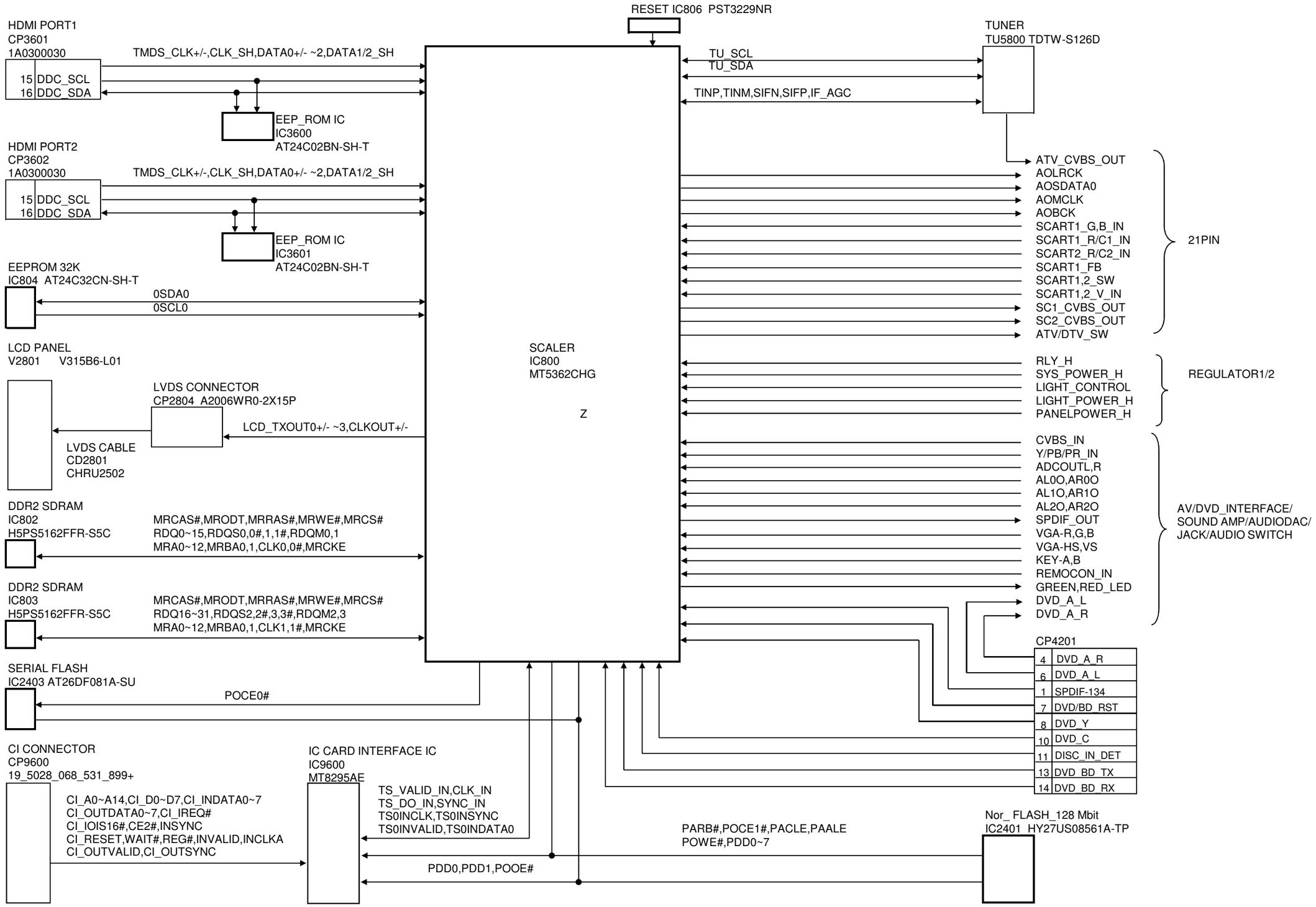
21PIN BLOCK DIAGRAM



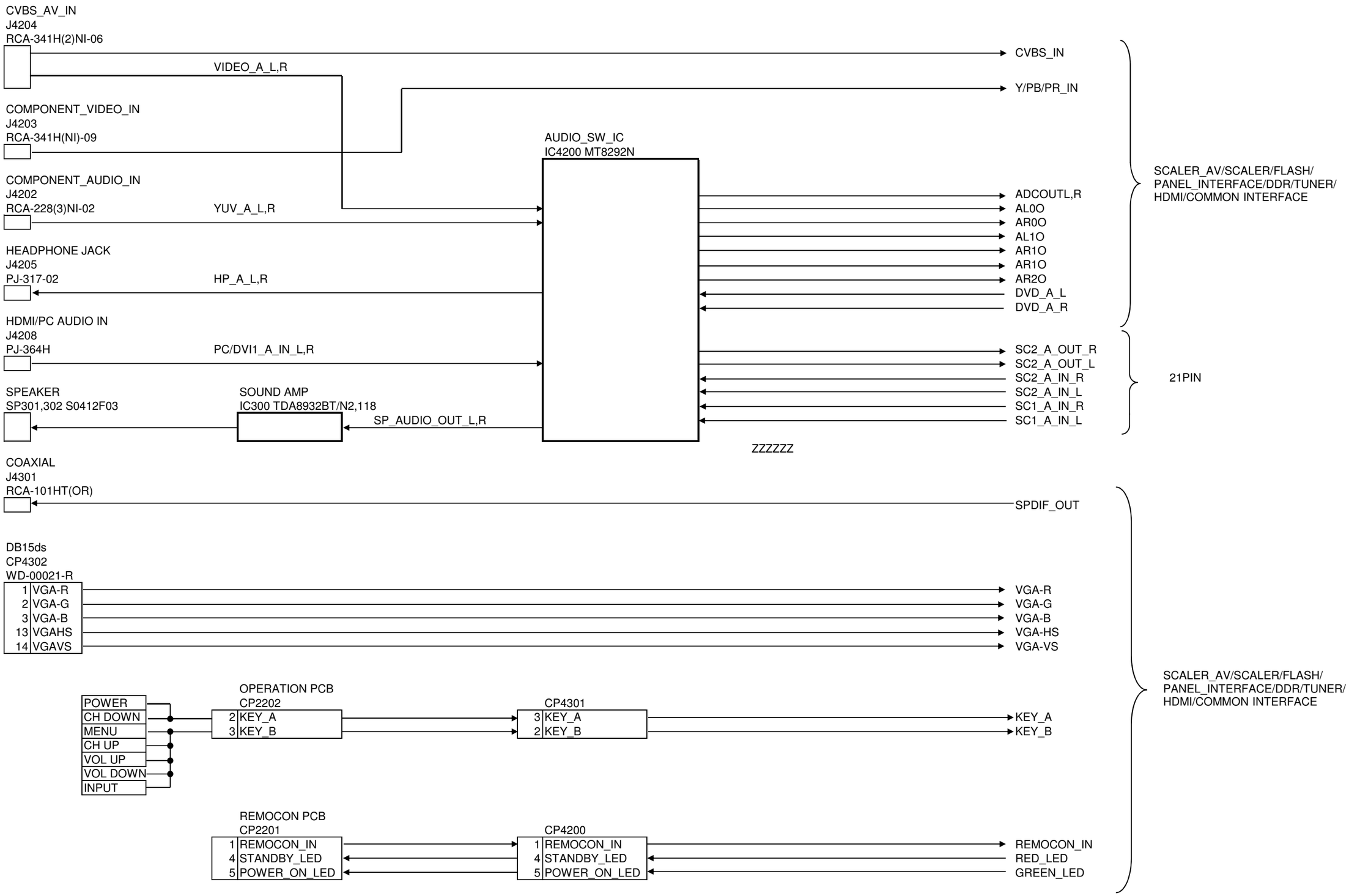
REGULATOR2/3 BLOCK DIAGRAM



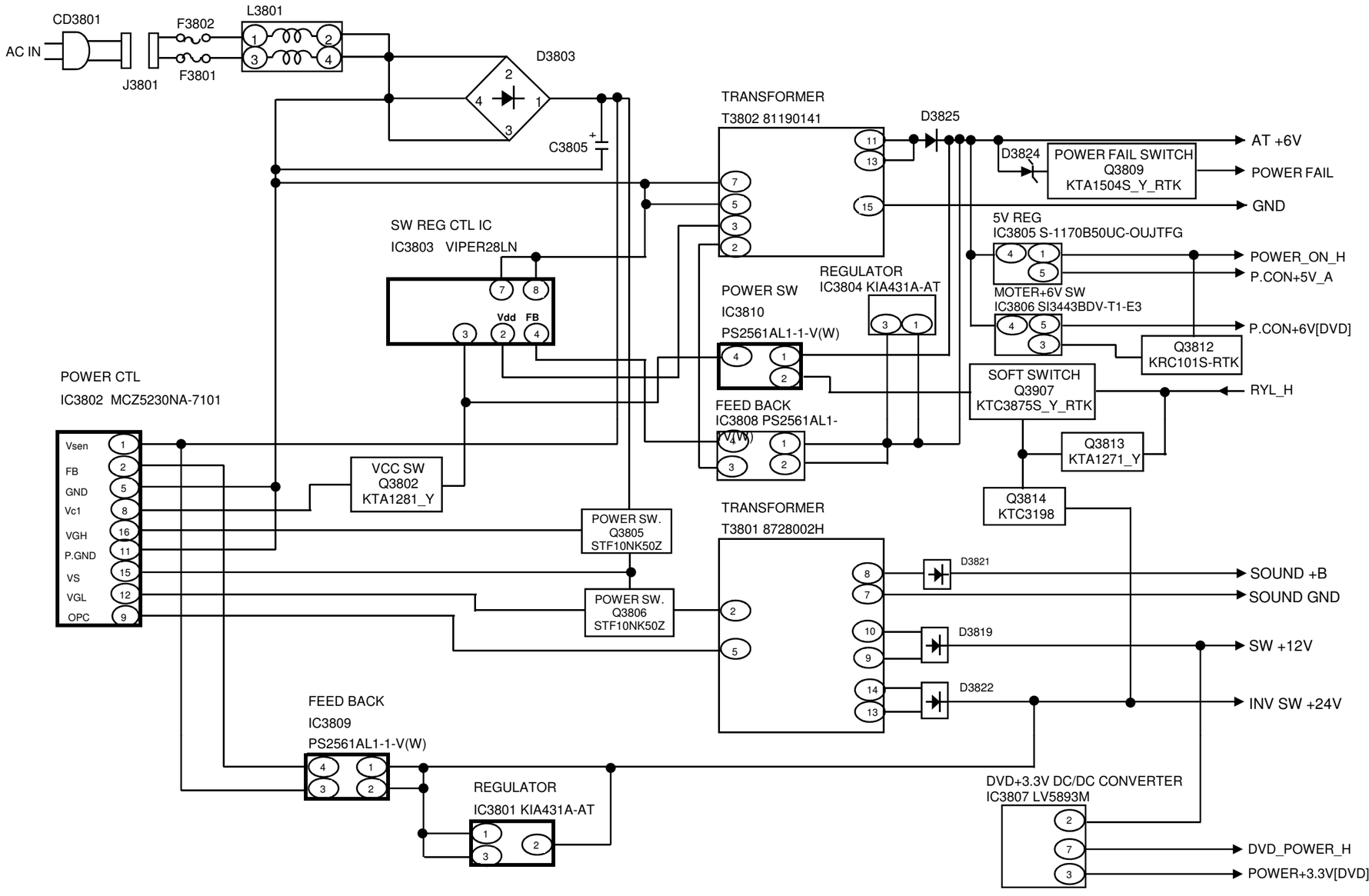
SCALER_AV/SCALER/FLASH/PANEL_INTERFACE/DDR/TUNER/HDMI/COMMON INTERFACE BLOCK DIAGRAM



AV/DVD_INTERFACE/SOUND AMP/AUDIO DAC/JACK/AUDIO SWITCH BLOCK DIAGRAM

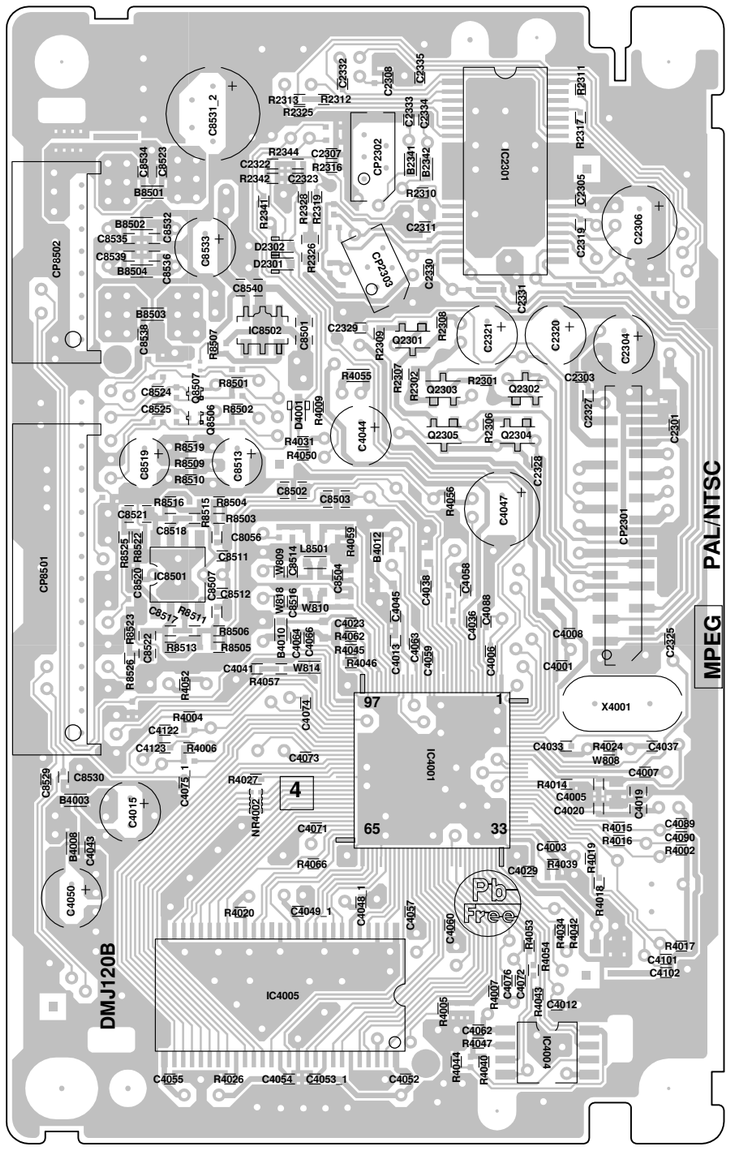


POWER BLOCK DIAGRAM

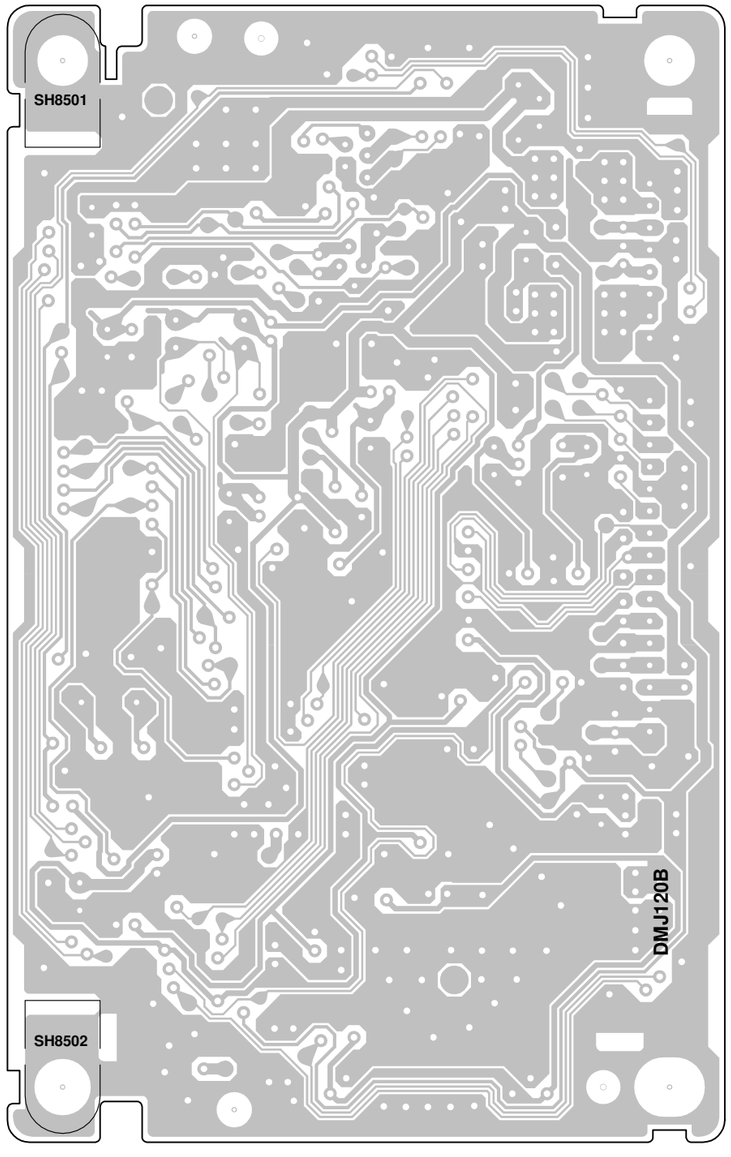


PRINTED CIRCUIT BOARDS

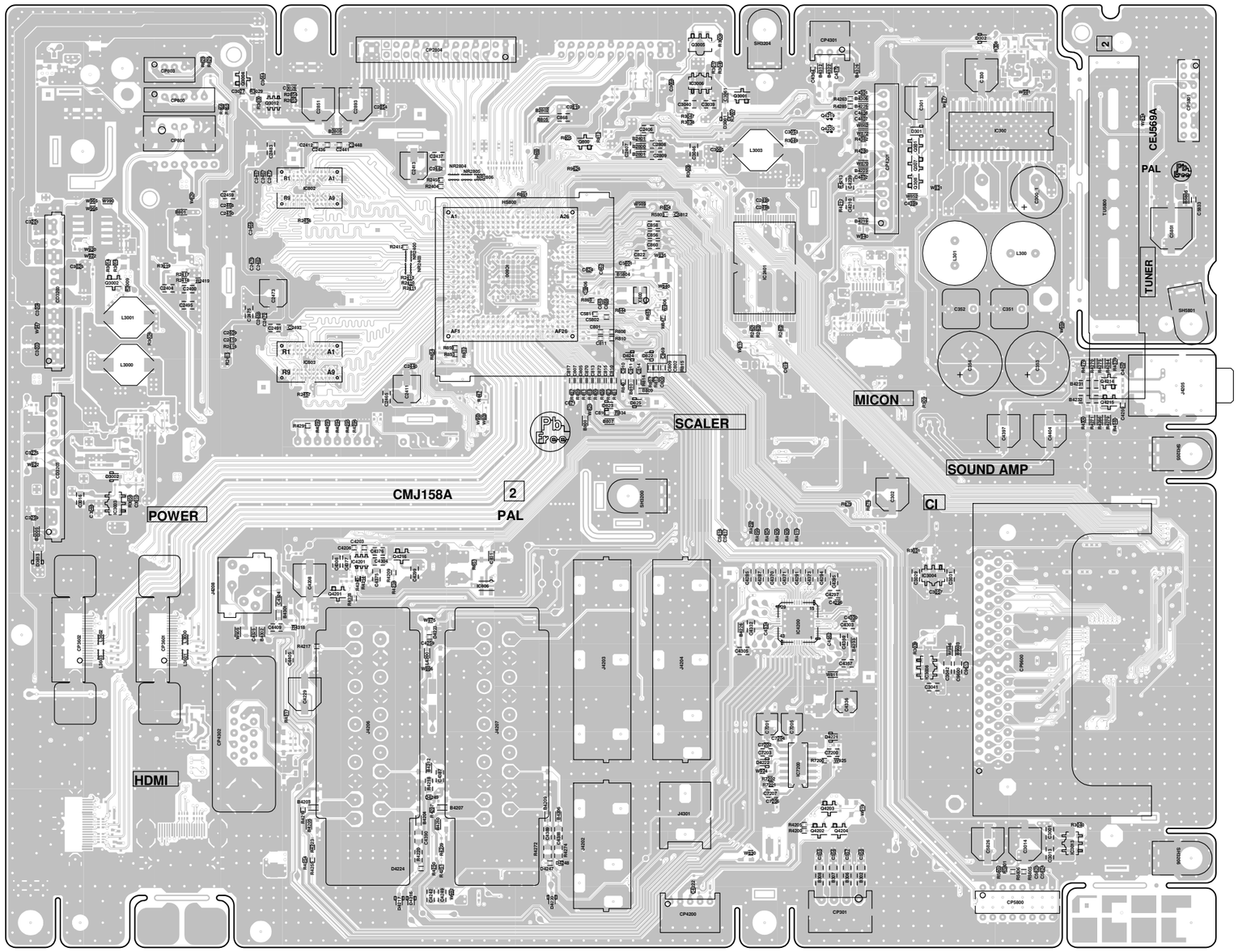
DVD MT (TOP SIDE)



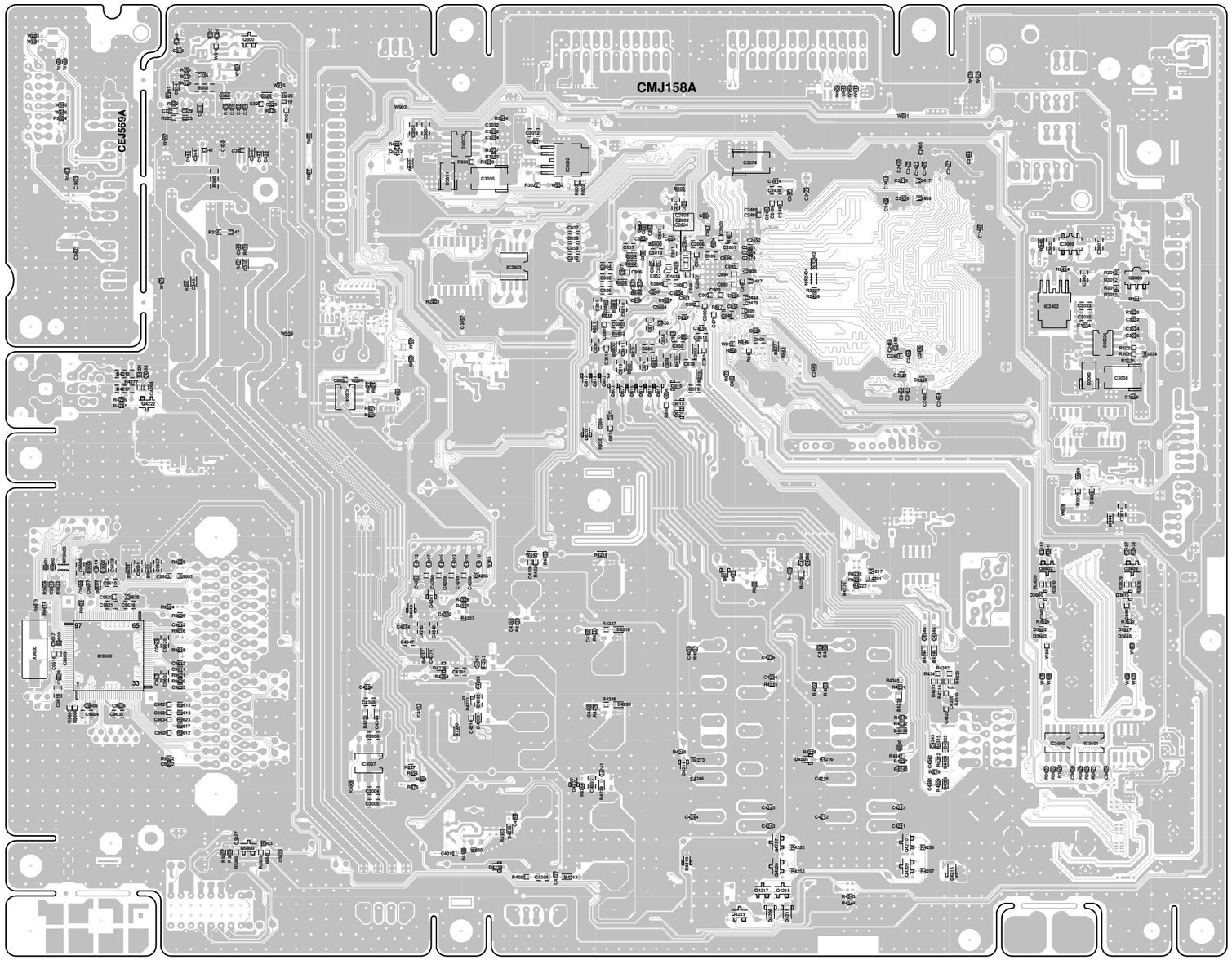
DVD MT (BOTTOM SIDE)



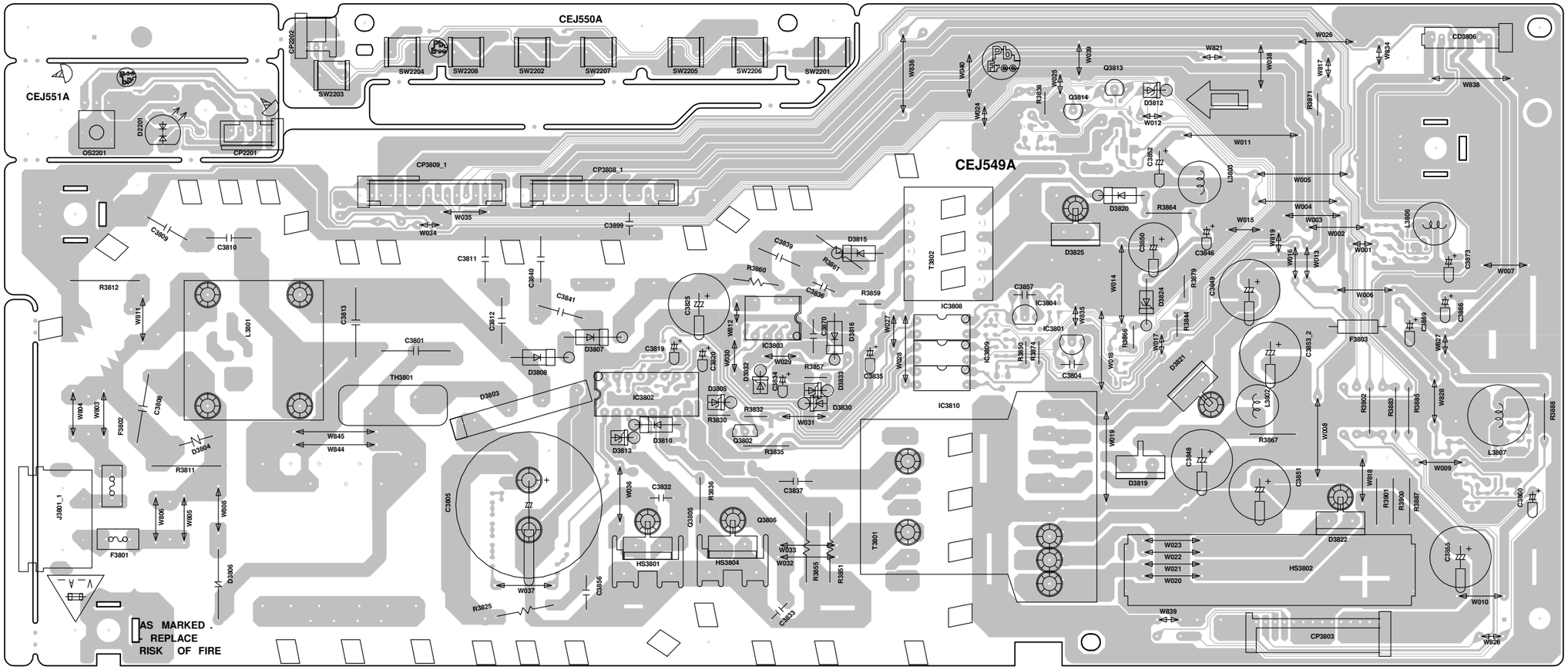
PRINTED CIRCUIT BOARDS
MAIN/TUNER (TOP SIDE)



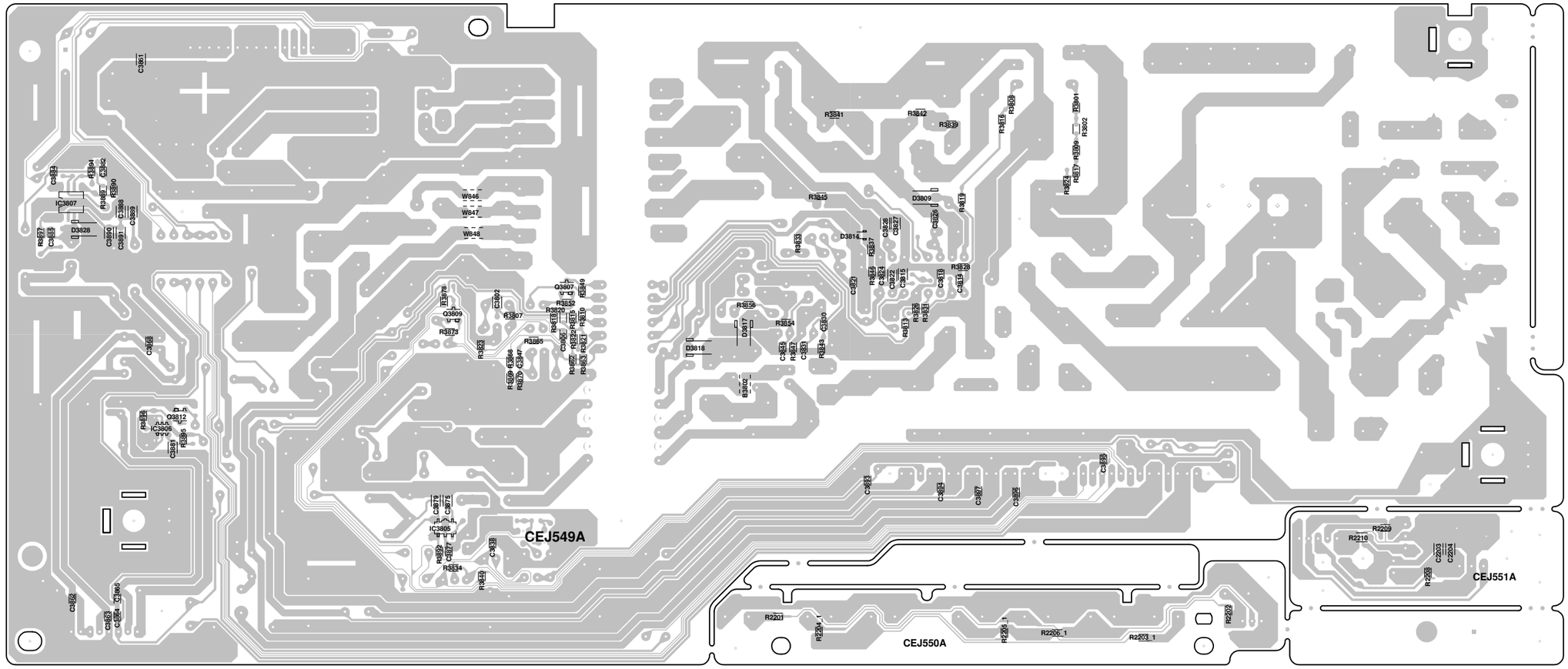
PRINTED CIRCUIT BOARDS
MAIN/TUNER (BOTTOM SIDE)



PRINTED CIRCUIT BOARDS
POWER/OPERATION/REMOCON (INSERTED PARTS)
SOLDER SIDE

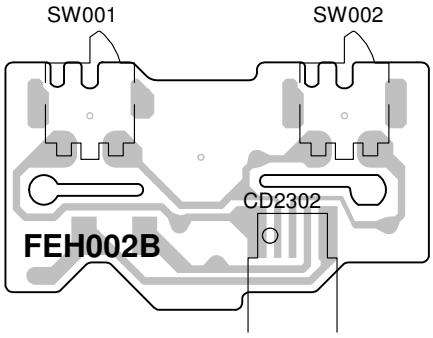


PRINTED CIRCUIT BOARDS
POWER/OPERATION/REMOCON (CHIP MOUNTED PARTS)
SOLDER SIDE

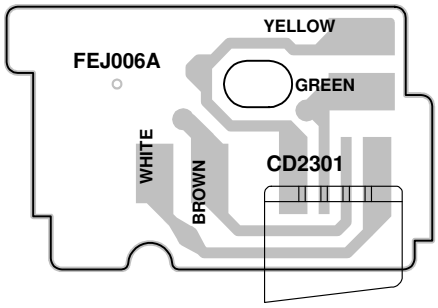


PRINTED CIRCUIT BOARDS

LOADING MOTOR
SOLDER SIDE



PCB
SOLDER SIDE



MPEG/MICON/DSP SCHEMATIC DIAGRAM

(DVD PCB)

SD CARD DEBUG
JG4001
JG4002 TXD
JG4003 RXD
JG4004

FROM/TO LOADER/MOTOR DRV
V20
A
B
C
D
E
F
MDI1
LDO2
LDO1
IOA
TROUT
TRIN
STBY
V1P4
DMSO
FMSO
TRCLOSE
TROPEN
TRSO
FOSO
OP+
OP-
RF

FROM/TO MEMORY/SD CARD
DQM0
DQM1
DWE#
DCAS#
DRAS#
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
DBA0
DBA1
MA0
MA1
MA2
MA3
MA4
MA5
MA6
MA7
MA8
MA9
MA10
MA11
SDCLK
SFLASH_CS
SFLASH_DO
SFLASH_DI
SFLASH_CK

V+3
V+1R8
V20
V1P4
LDO1
LDO2
DMSO
FMSO
STBY
IOA
TRSO
FOSO

PTN Width of V20 and V1P4 are more than 0.3mm

MPEG/MICON
IC4001
MT1389DE/L-L

	89L	89K
114	GPIO	Reserved
115	GPIO	Reserved
119	GPIO	Reserved
120	GPIO	Reserved

	89L	89K
106	AKIN1/GPIO21	GPIO21
107	ADVCM/GPIO20	GPIO20
108	AKIN2/GPIO19	GPIO19

	89L	89K
27	USB_DP	GPIO0
28	USB_DM	GPIO1
31	PAD_VRT	GPIO2

B4010 FCM1608KF-102T02
B4012 FCM1608KF-102T02
B4003 FCM1608KF-102T02

ANALOG VIDEO OUTPUT!!
NECESSARY SHIELD
R/PR/CVBS
B/PB/SC
G/Y/SY
C/V

Low output during reset is possible
Pin 87, 88, 92, 94

FROM/TO VIDEO/AUDIO
V+3
V+1R8
TXD2TV/CS
RXD2TV
RESET
ASPDIF
XAMUTE
B/PB/SC
R/PR/CVBS
G/Y/SY
AL
AR

JG4091 V+3D
JG4092 RXD
JG4093 TXD
JG4094 GND
JG4005 D.MODE_L

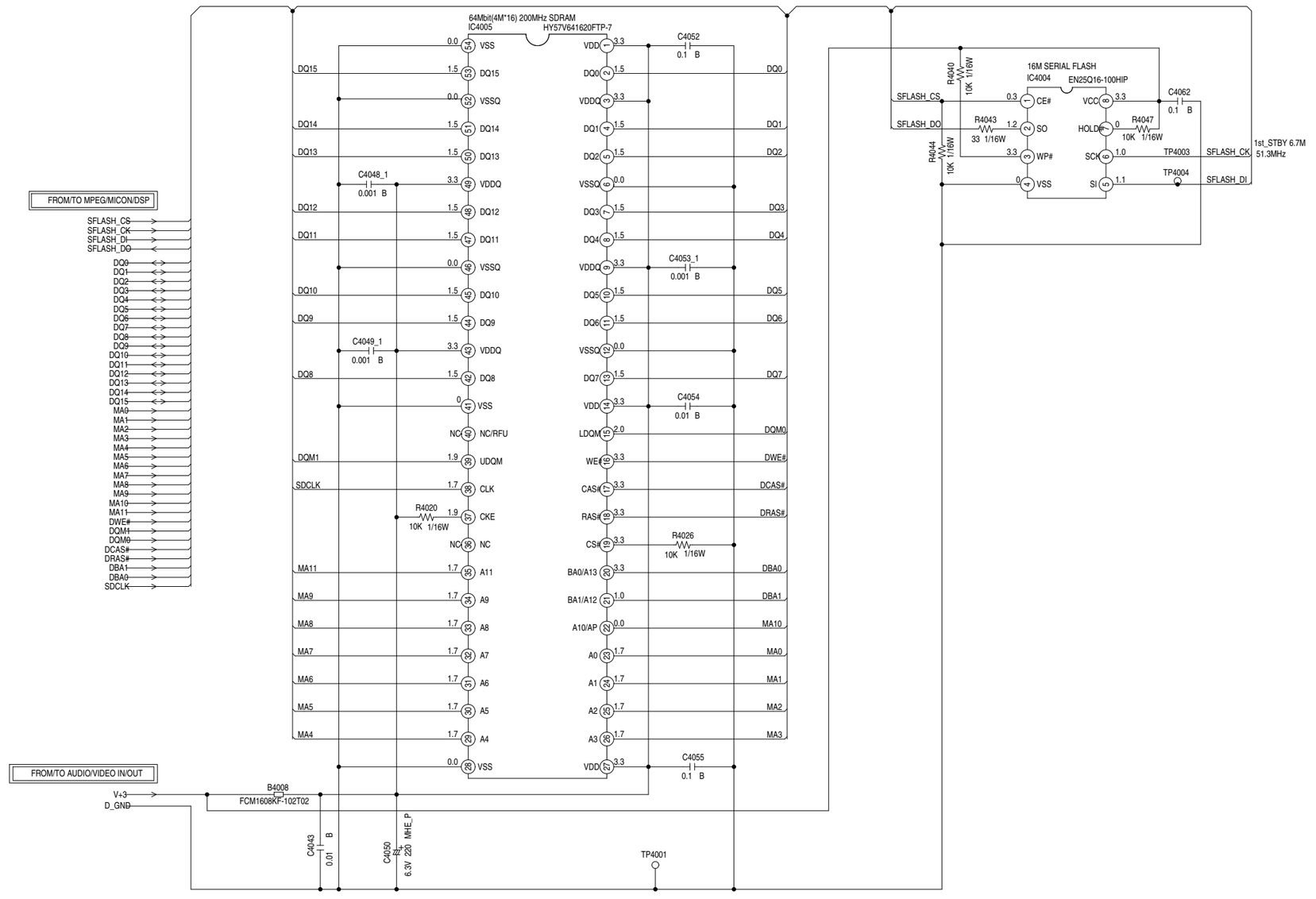
PCB130
DMJ120

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

MEMORY/SD CARD SCHEMATIC DIAGRAM

(DVD PCB)



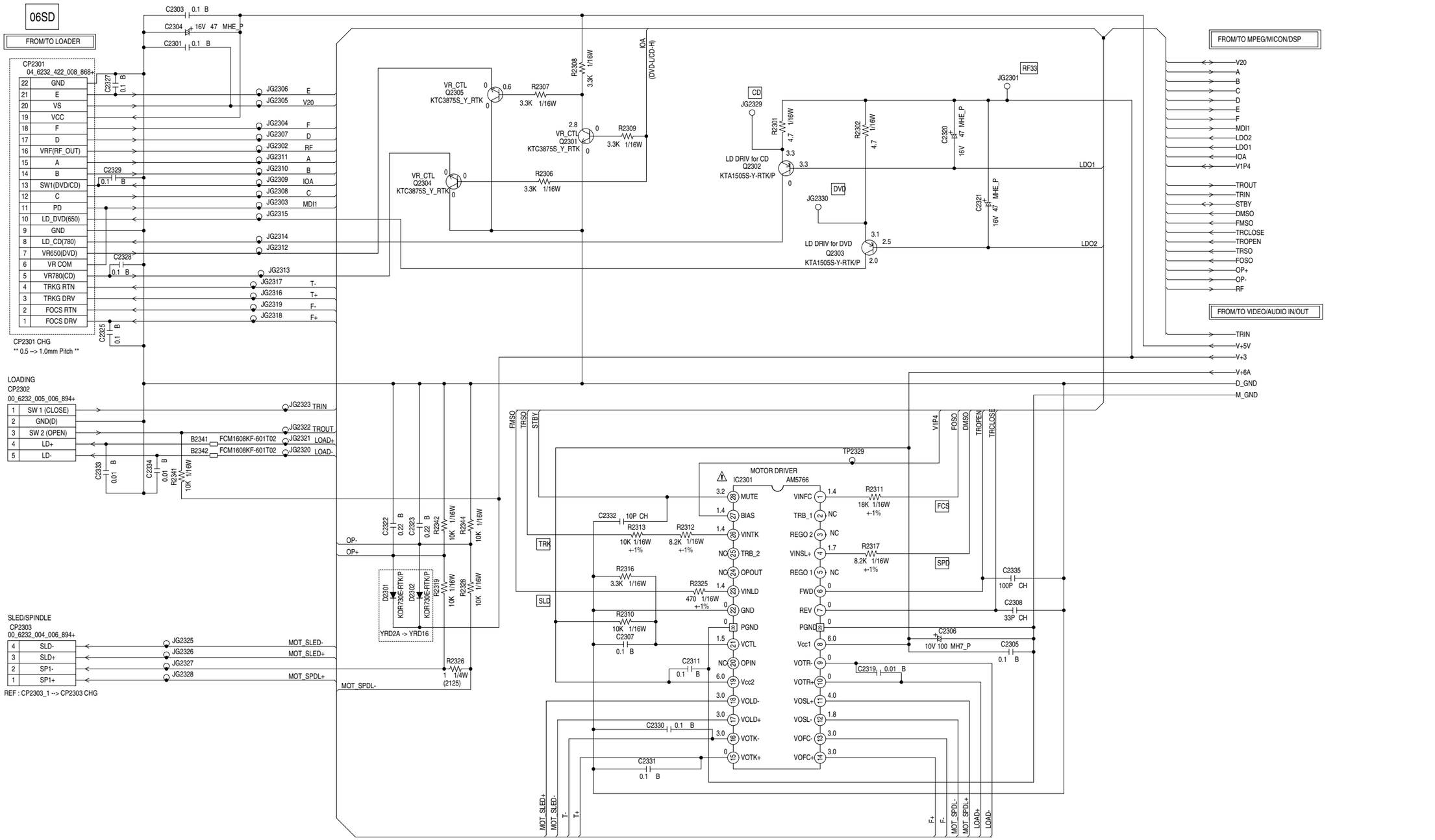
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

PCB130
DMJ120

LOADER/MOTOR DRV SCHEMATIC DIAGRAM

(DVD PCB)



ATTENTION LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

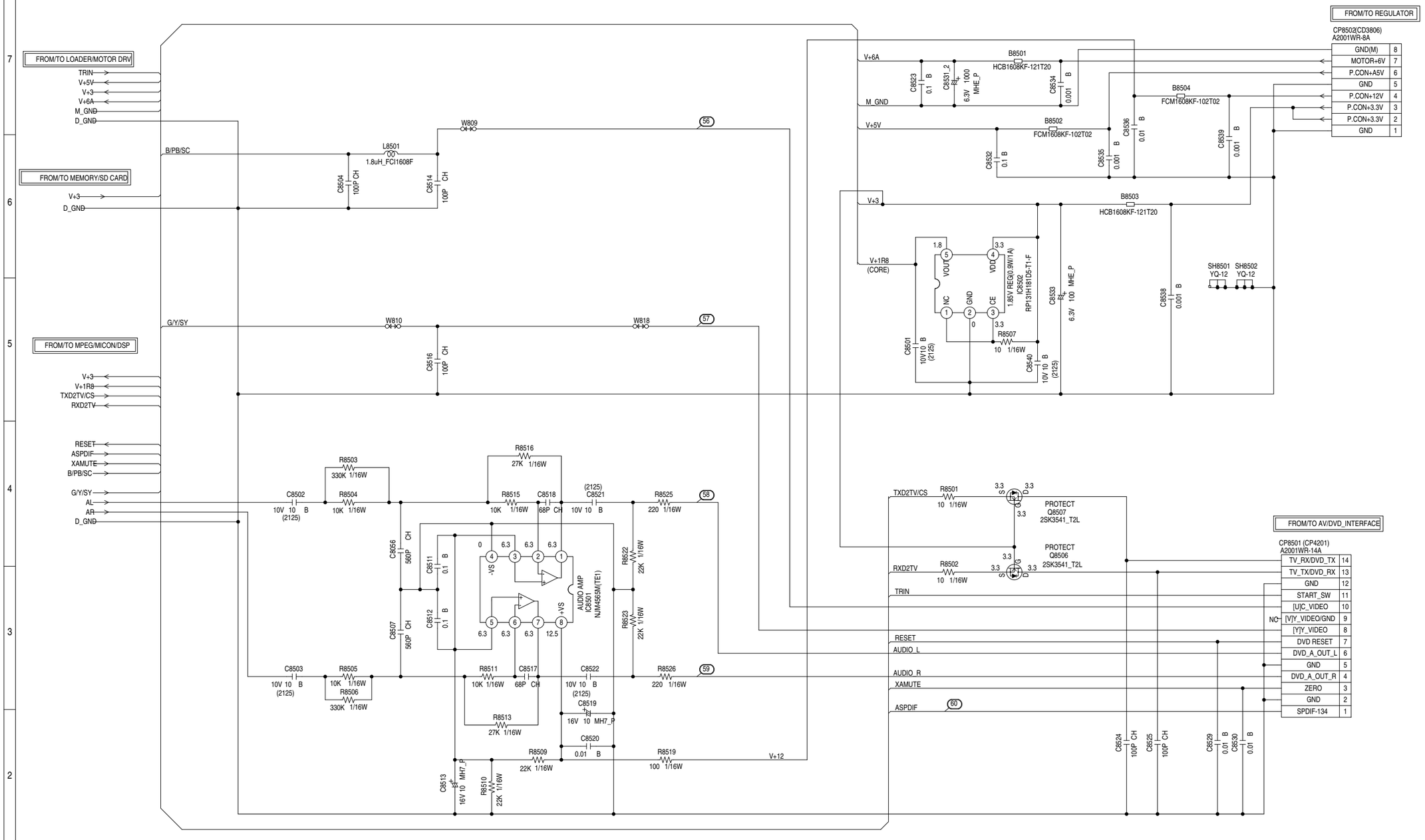
CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

VIDEO/AUDIO IN/OUT SCHEMATIC DIAGRAM

(DVD PCB)

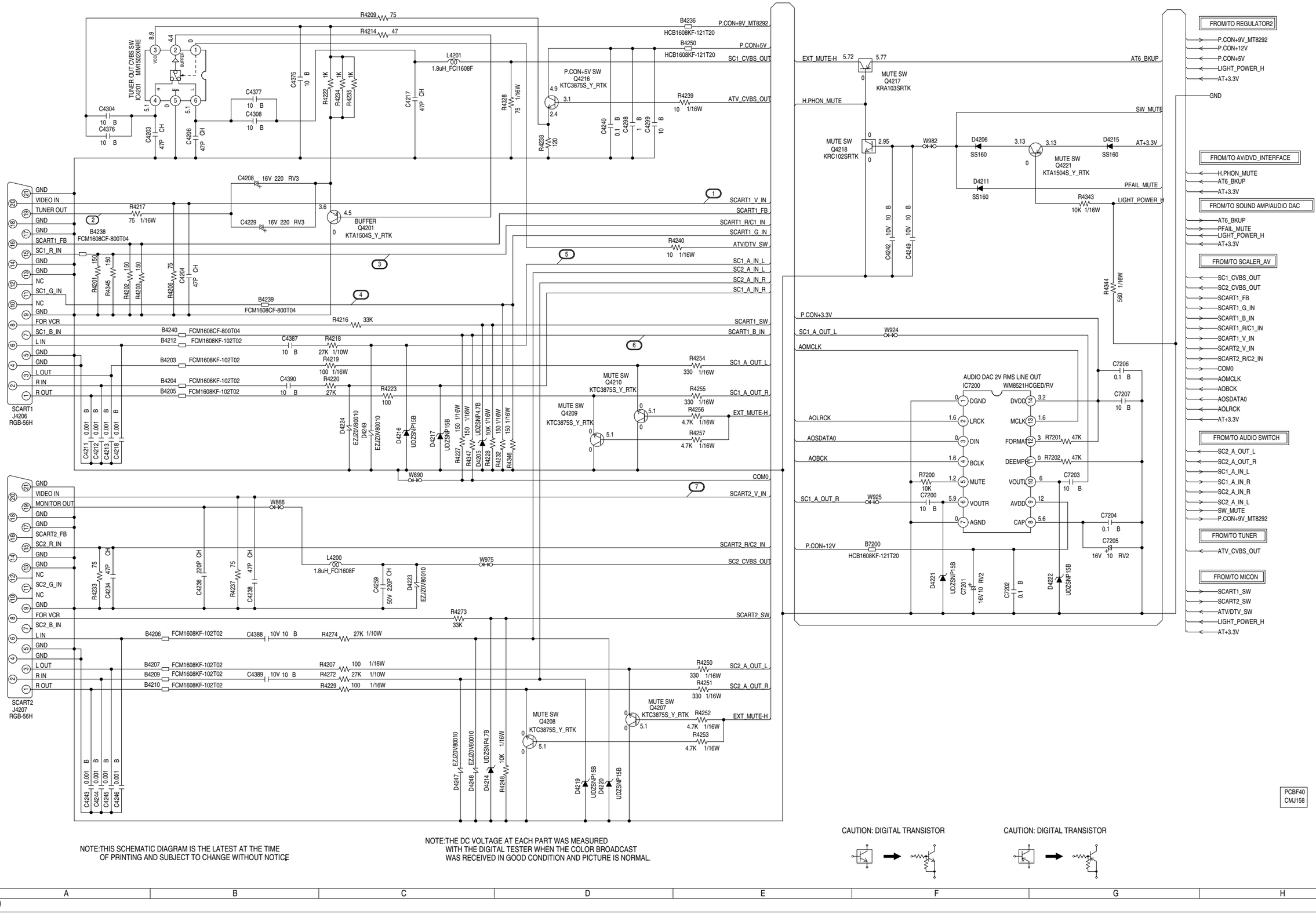


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

21PIN SCHEMATIC DIAGRAM

(MAIN PCB)



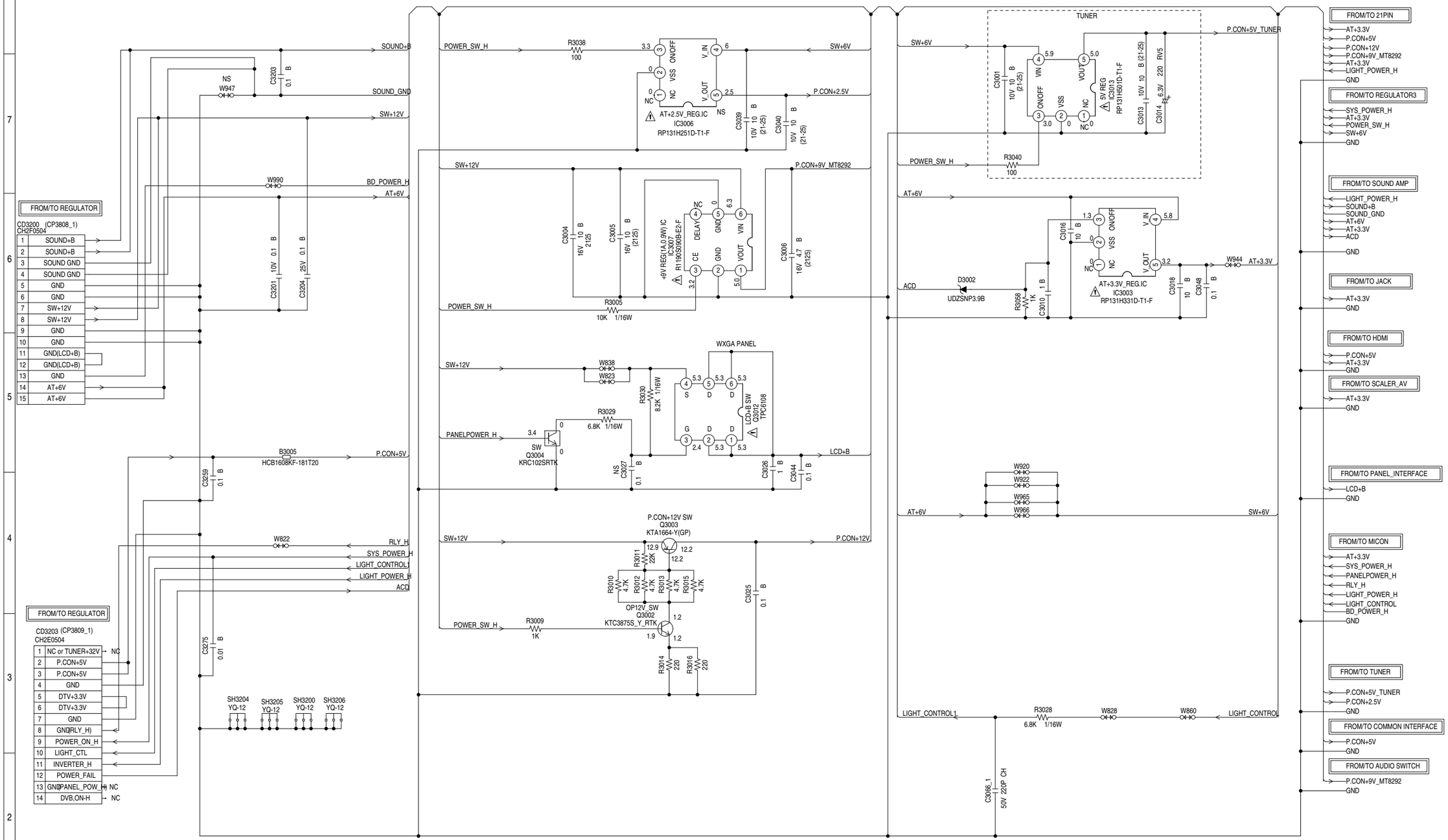
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR

CAUTION: DIGITAL TRANSISTOR

REGULATOR2 SCHEMATIC DIAGRAM
(MAIN PCB)



NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

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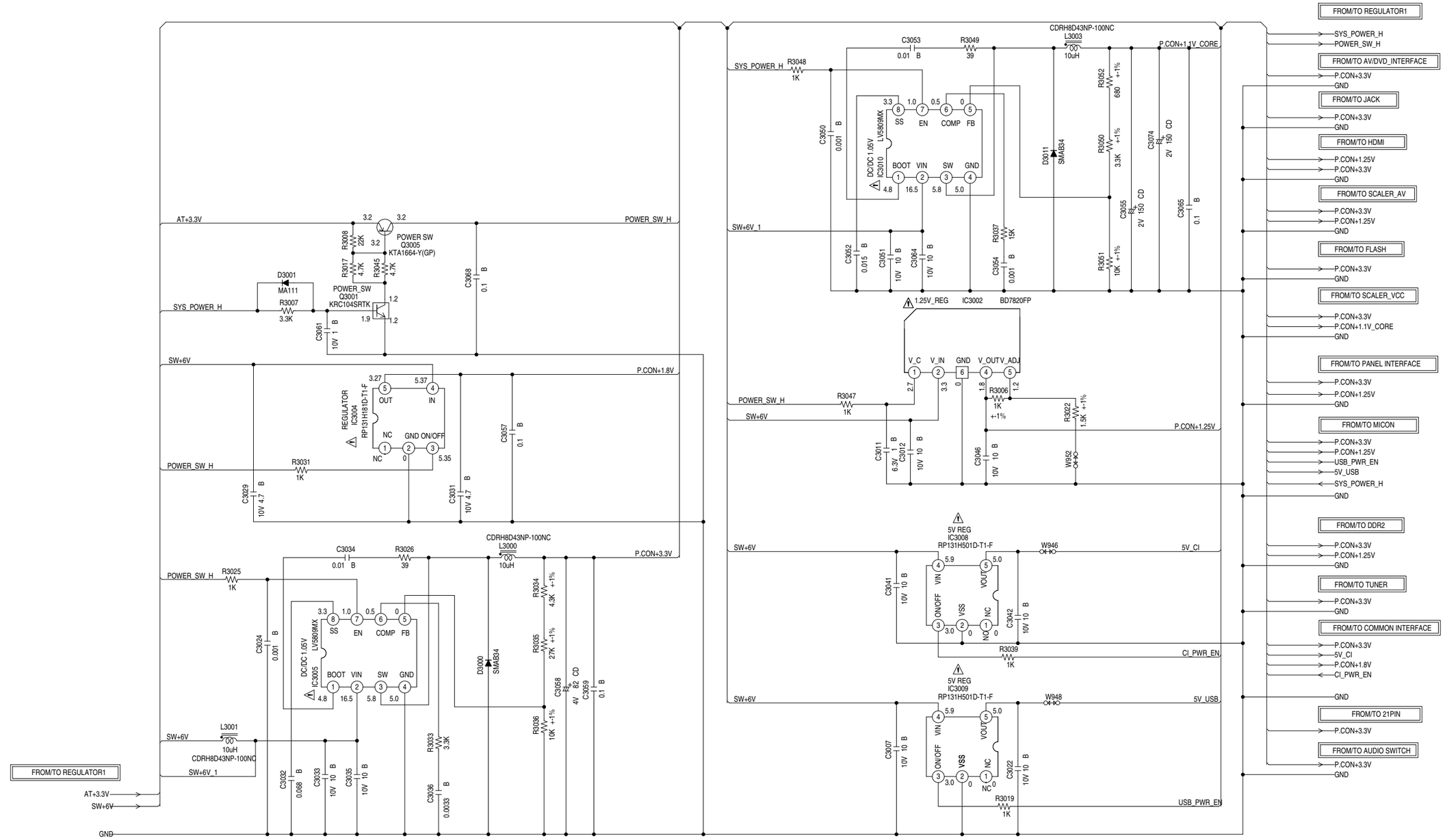
REGULATOR3 SCHEMATIC DIAGRAM

(MAIN PCB)



PCBF40
CMJ158

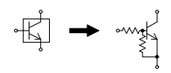
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

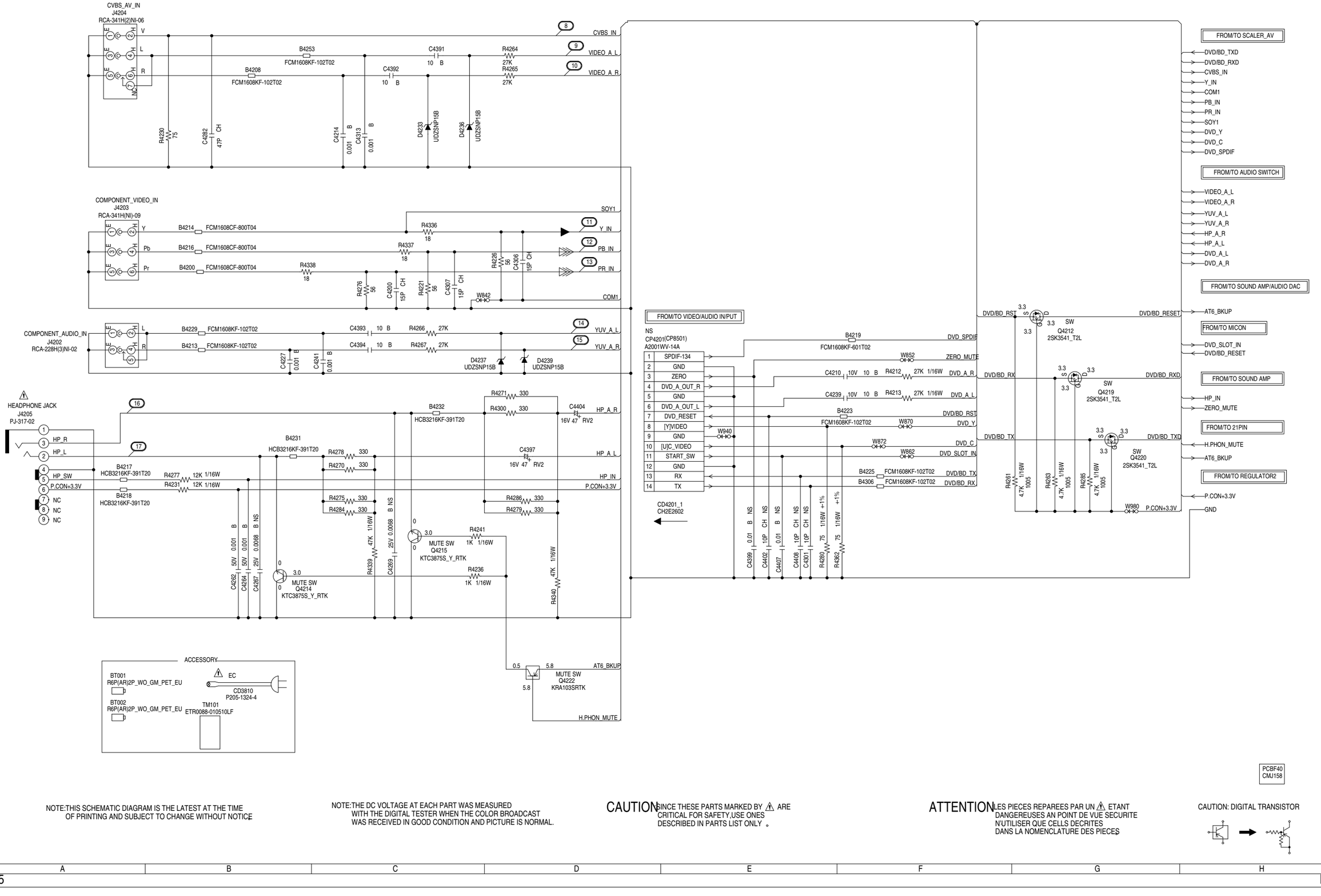
ATTENTION LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

CAUTION: DIGITAL TRANSISTOR



AV/DVD_INTERFACE SCHEMATIC DIAGRAM

(MAIN PCB)



PCBF40
CMJ158

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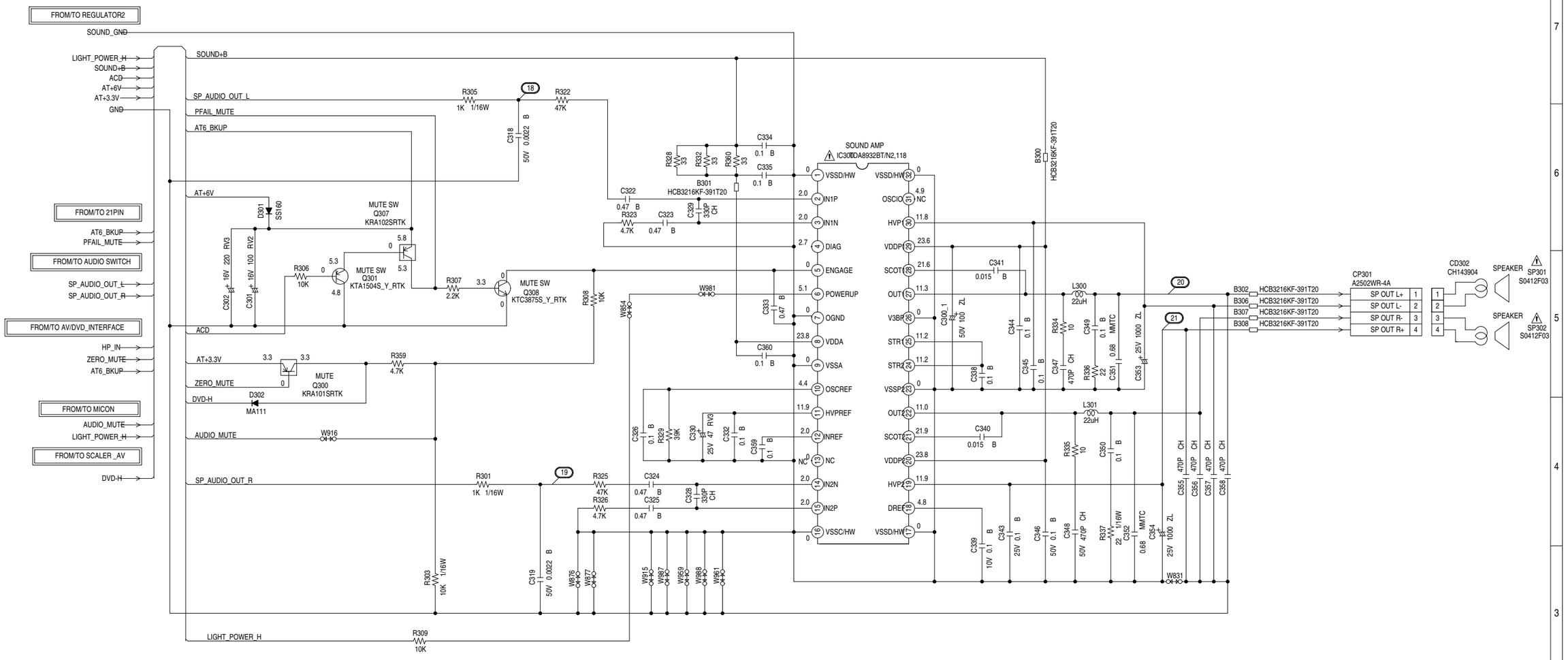
CAUTION: DIGITAL TRANSISTOR

SOUND AMP/AUDIO DAC SCHEMATIC DIAGRAM

(MAIN PCB)



PCBF40
CMJ158

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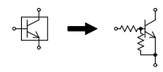
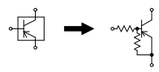
CAUTION: DIGITAL TRANSISTOR

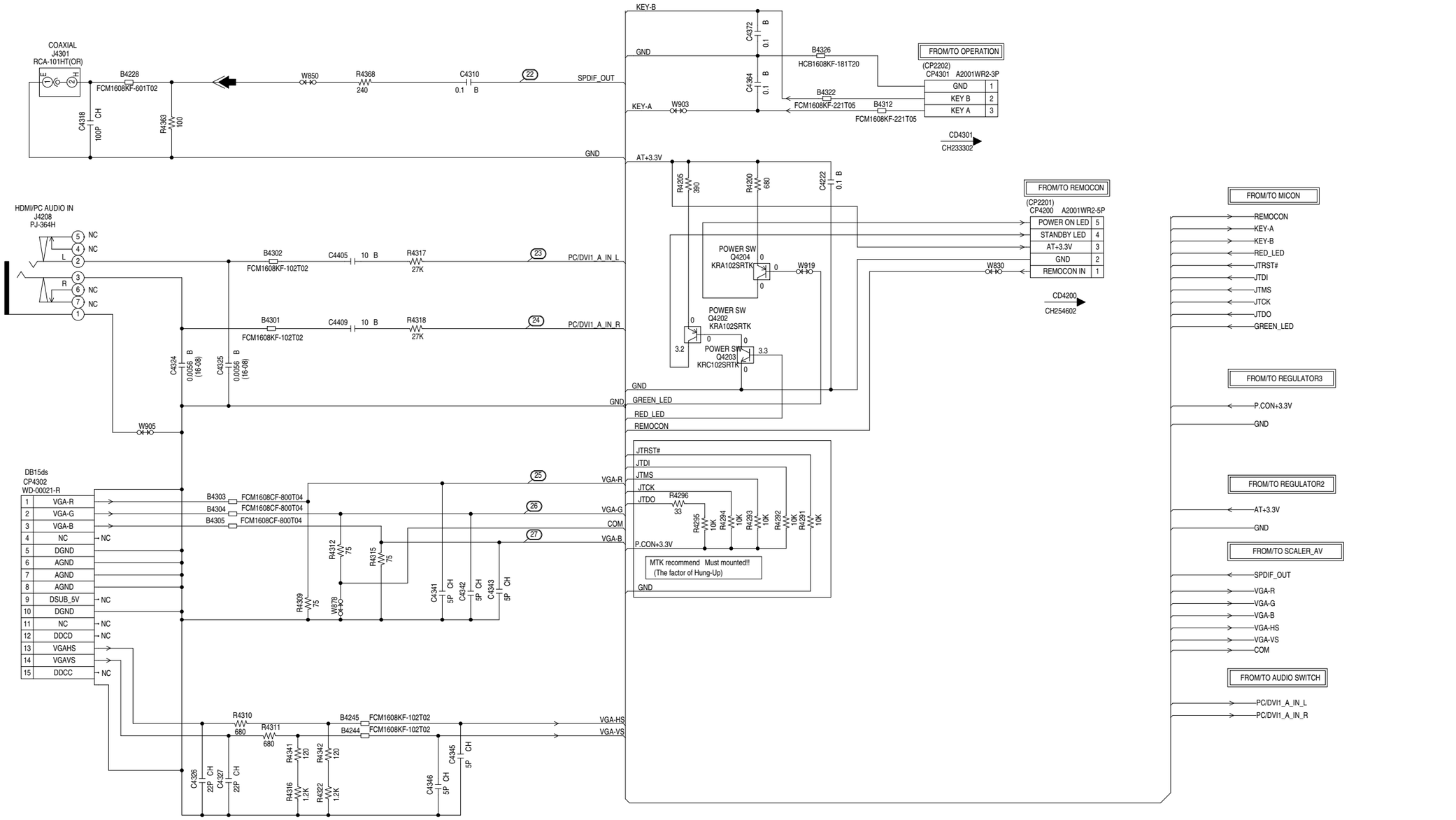


CAUTION: DIGITAL TRANSISTOR



JACK SCHEMATIC DIAGRAM

(MAIN PCB)



PCBF40
CMJ158

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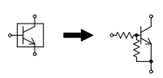
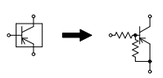
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

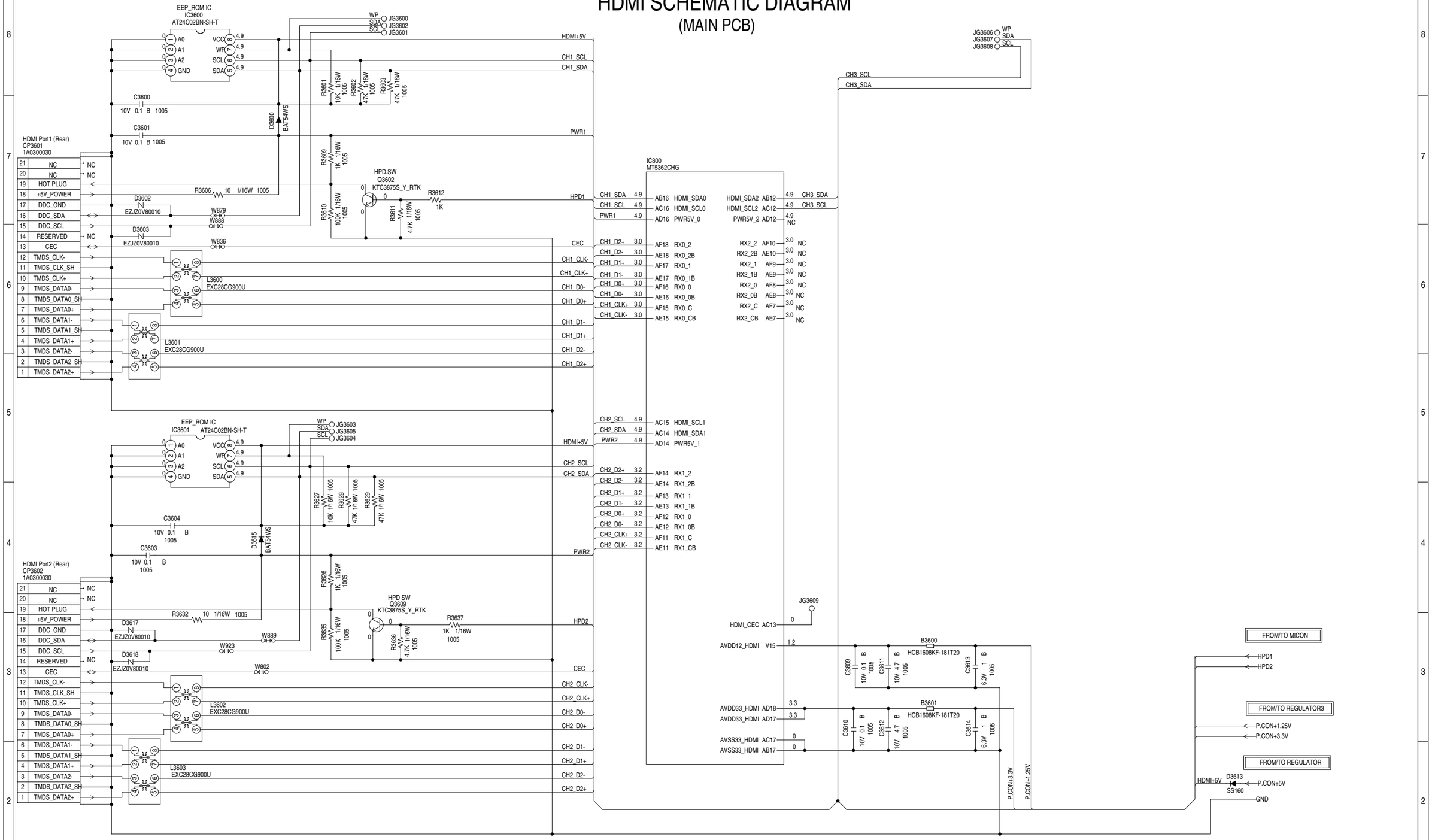
CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



HDMI SCHEMATIC DIAGRAM
(MAIN PCB)

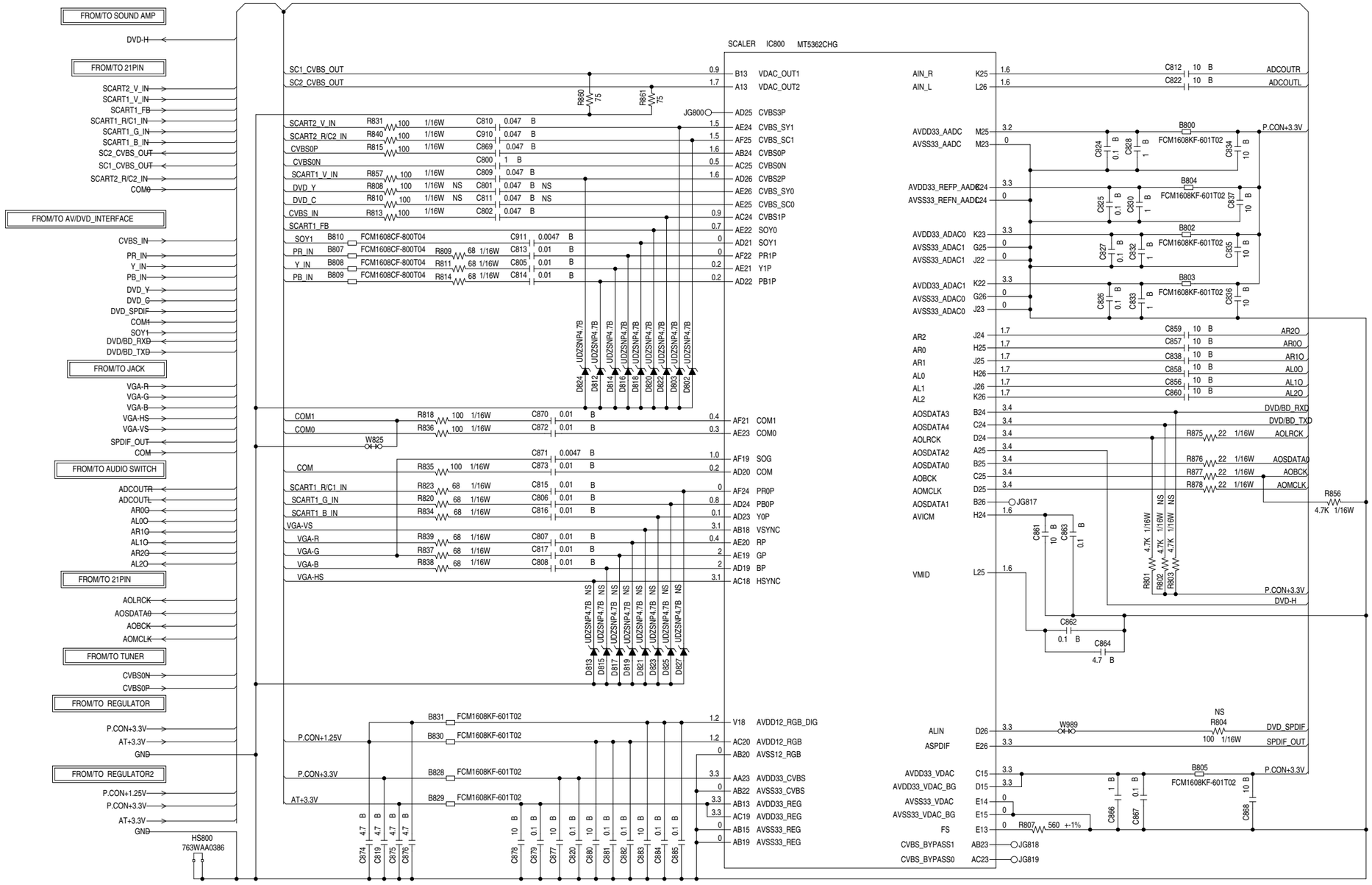


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

SCALER_AV SCHEMATIC DIAGRAM

(MAIN PCB)



PCBF40
CMJ158

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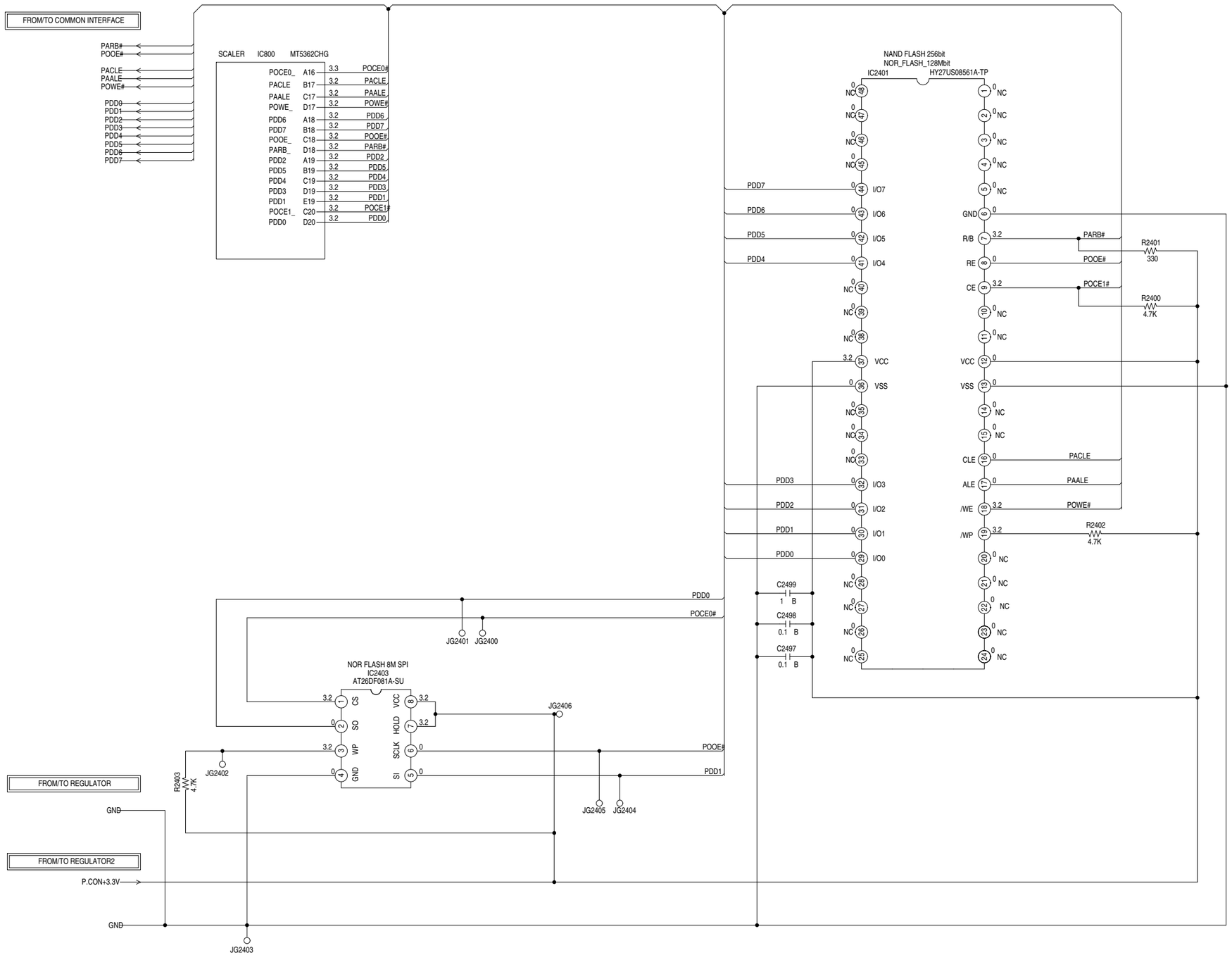
FLASH SCHEMATIC DIAGRAM

(MAIN PCB)



NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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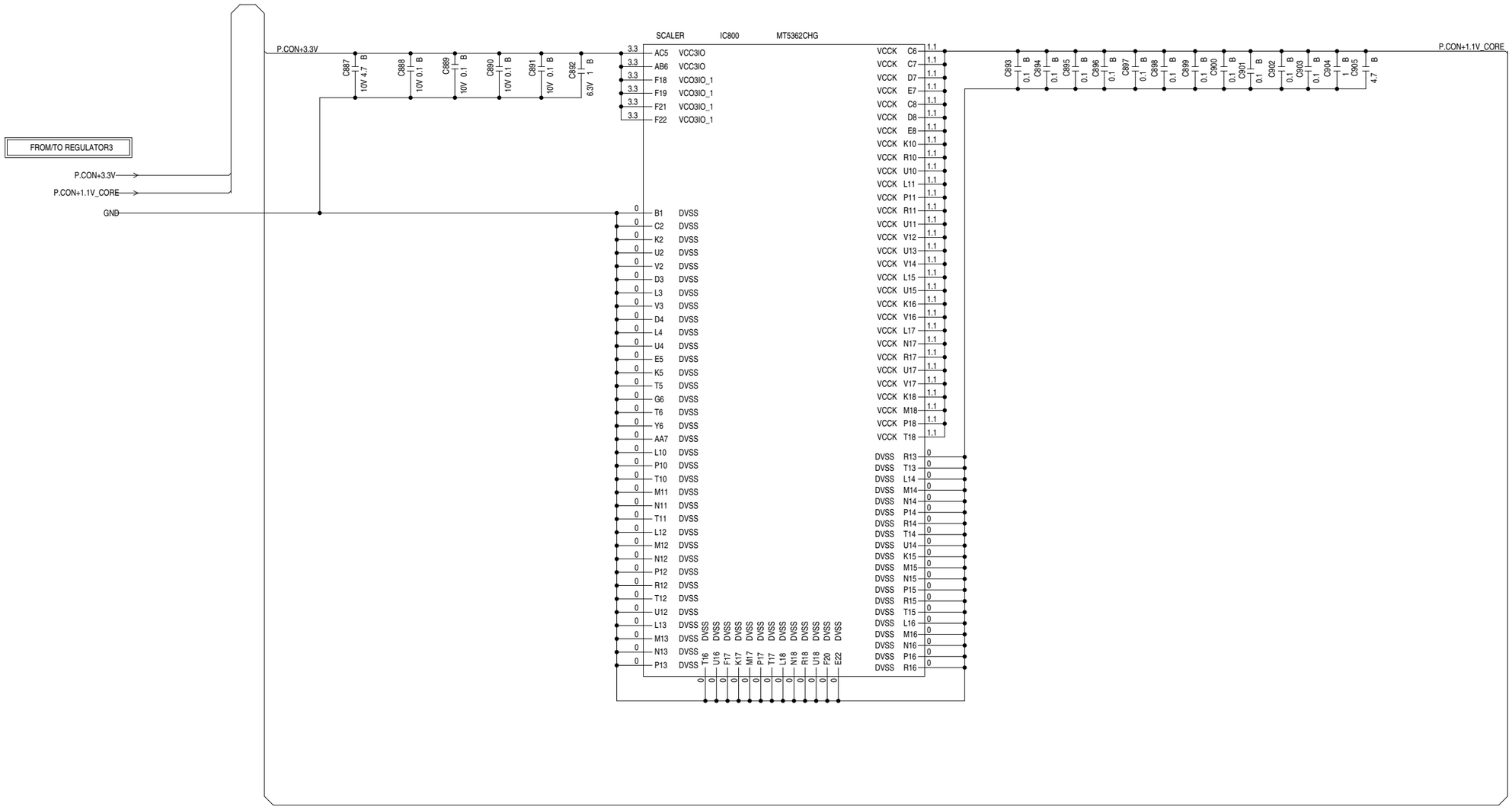
SCALER_VCC SCHEMATIC DIAGRAM

(MAIN PCB)



PCBF40
CMJ158

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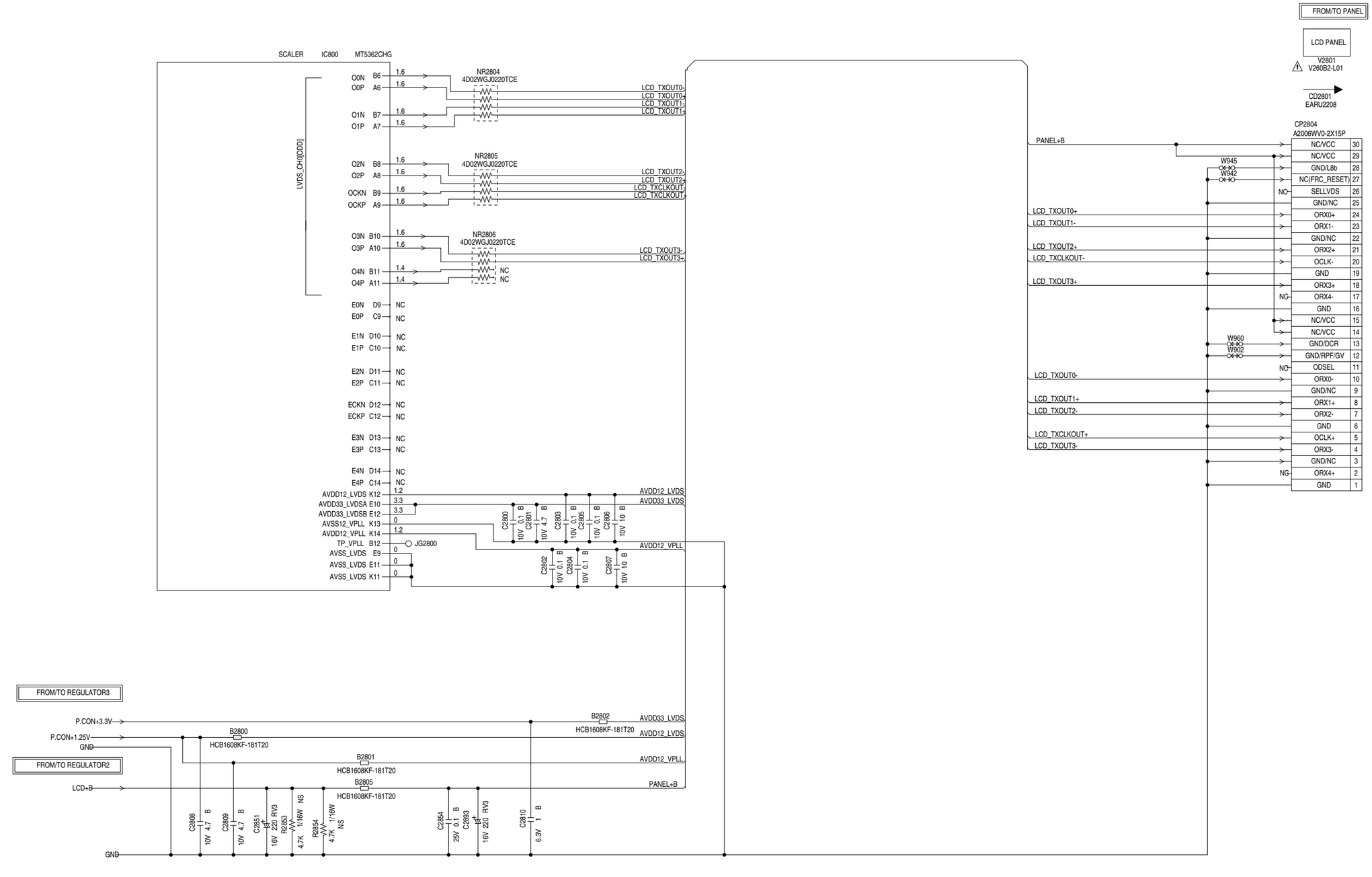
PANEL_INTERFACE SCHEMATIC DIAGRAM

(MAIN PCB)



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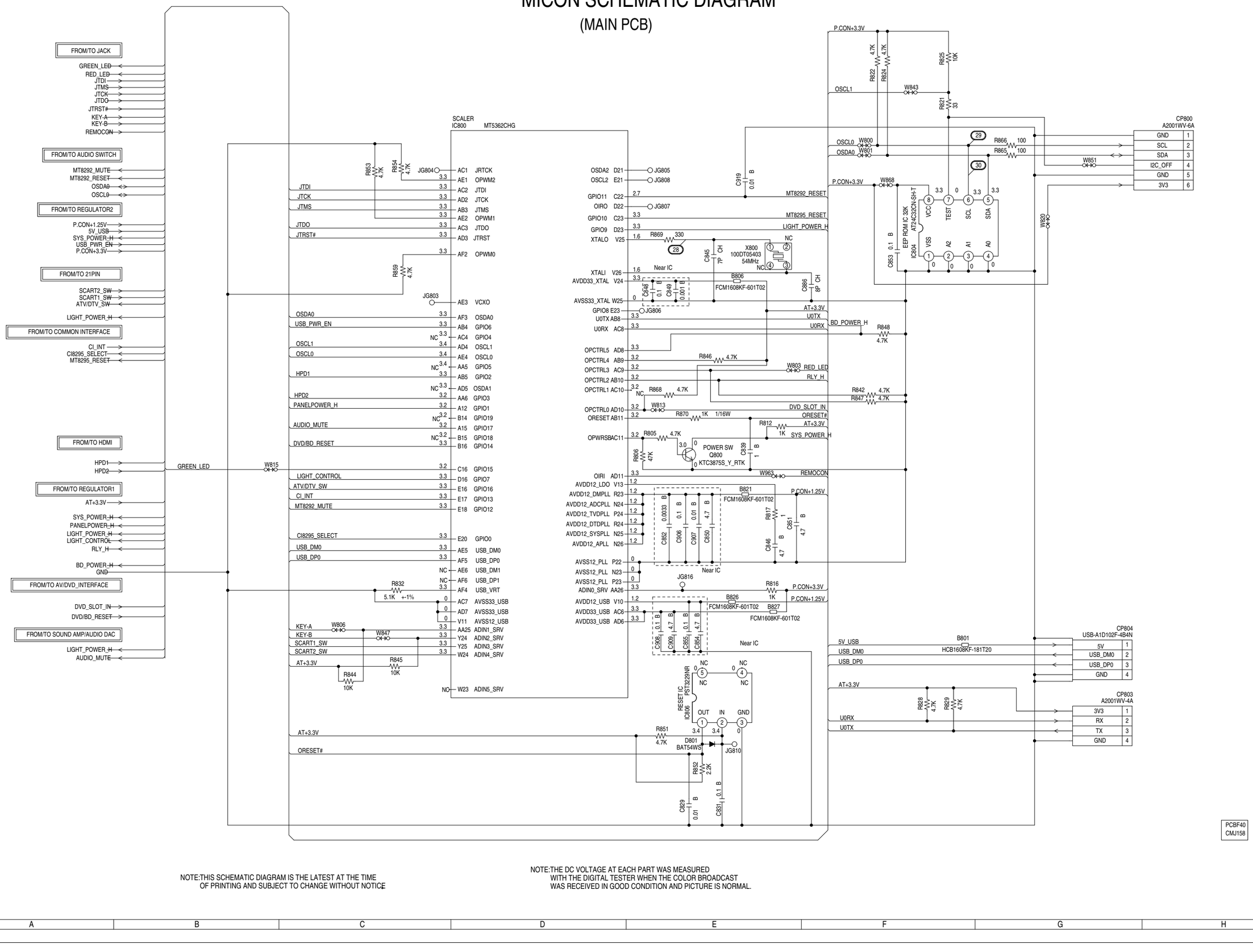
CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

MICON SCHEMATIC DIAGRAM

(MAIN PCB)



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DDR2 SCHEMATIC DIAGRAM

(MAIN PCB)

*** Can't measure voltage.
Because nothing pattern.

*** Can't measure voltage.
Because nothing pattern.

*** Can't measure voltage.
Because nothing pattern.

SCALER IC IC800 MT5362CHG

DDR2 SDRAM IC
IC802
H5PS5162FFR-S5C

DDR2 SDRAM IC
IC803
H5PS5162FFR-S5C

DDR BYPASS Bottom SIDE

Bottom Side DDR1

Bottom Side DDR_2

FROM/TO REGULATOR3

1.8V_REGULATOR
IC2402 PQ035ZN1HZPH

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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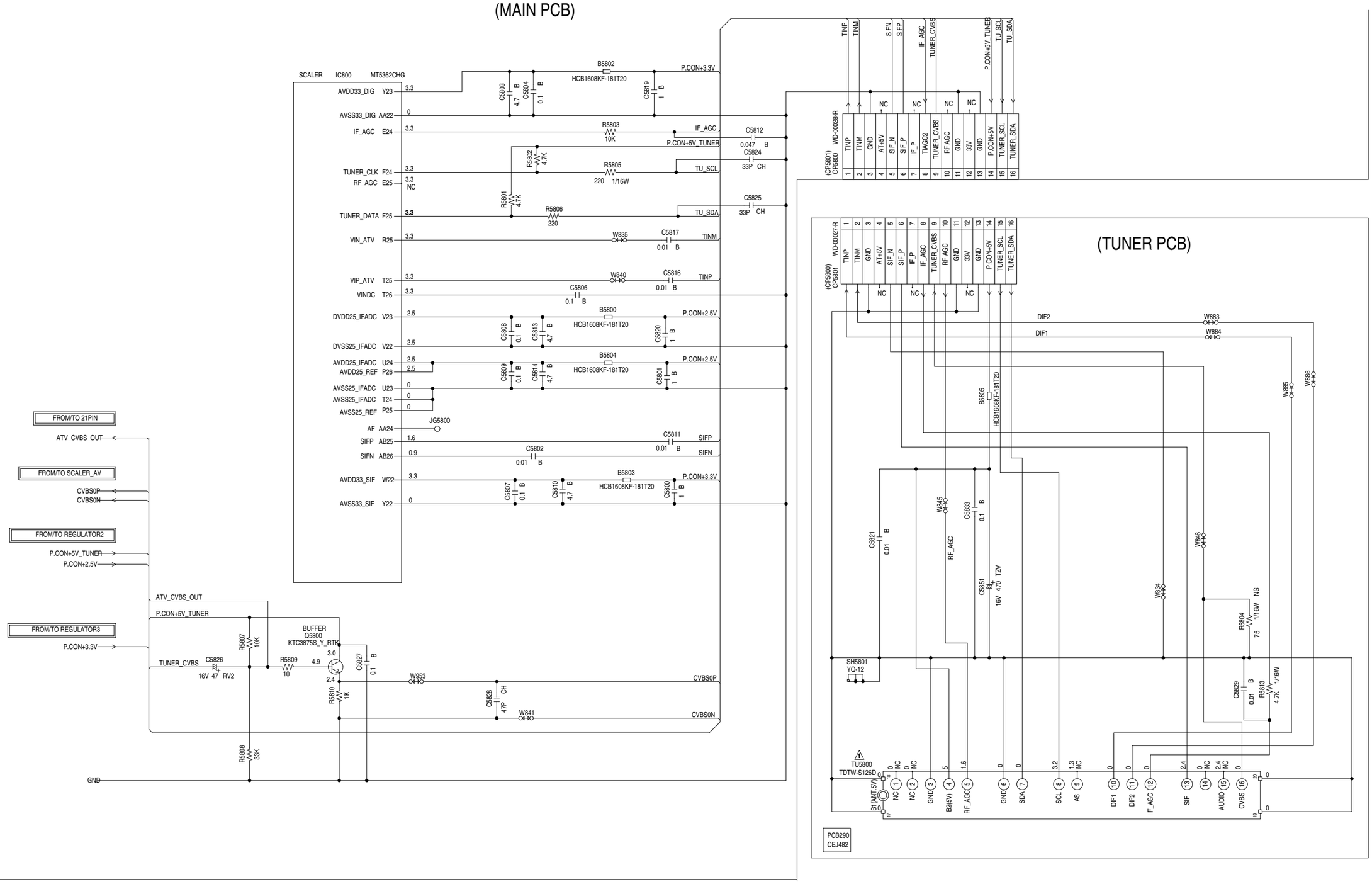
CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

ATTENTION LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

PCBF40
CMJ158

TUNER SCHEMATIC DIAGRAM
(MAIN PCB)



(TUNER PCB)

PCBF40
CMJ158

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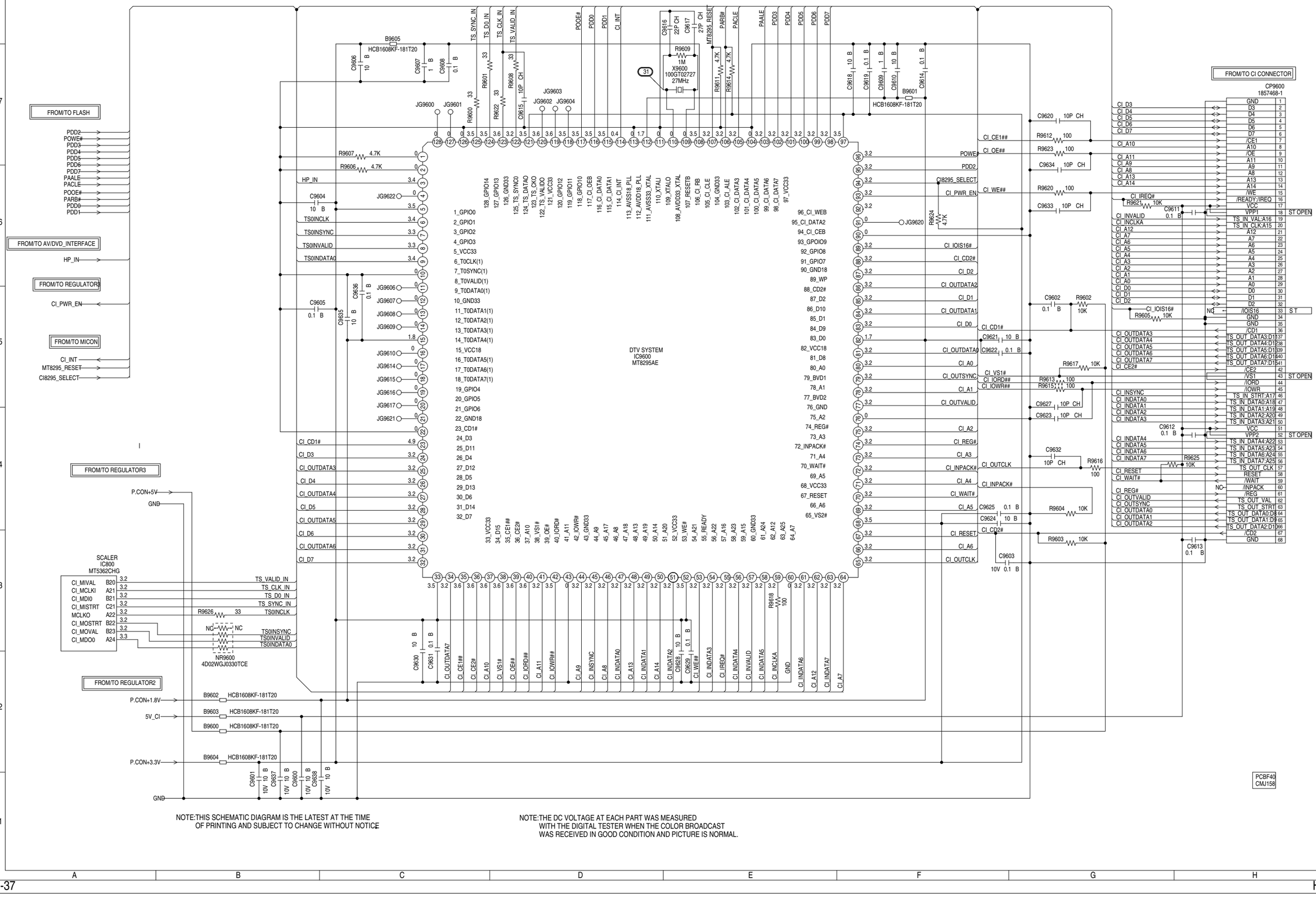
COMMON INTERFACE SCHEMATIC DIAGRAM

(MAIN PCB)

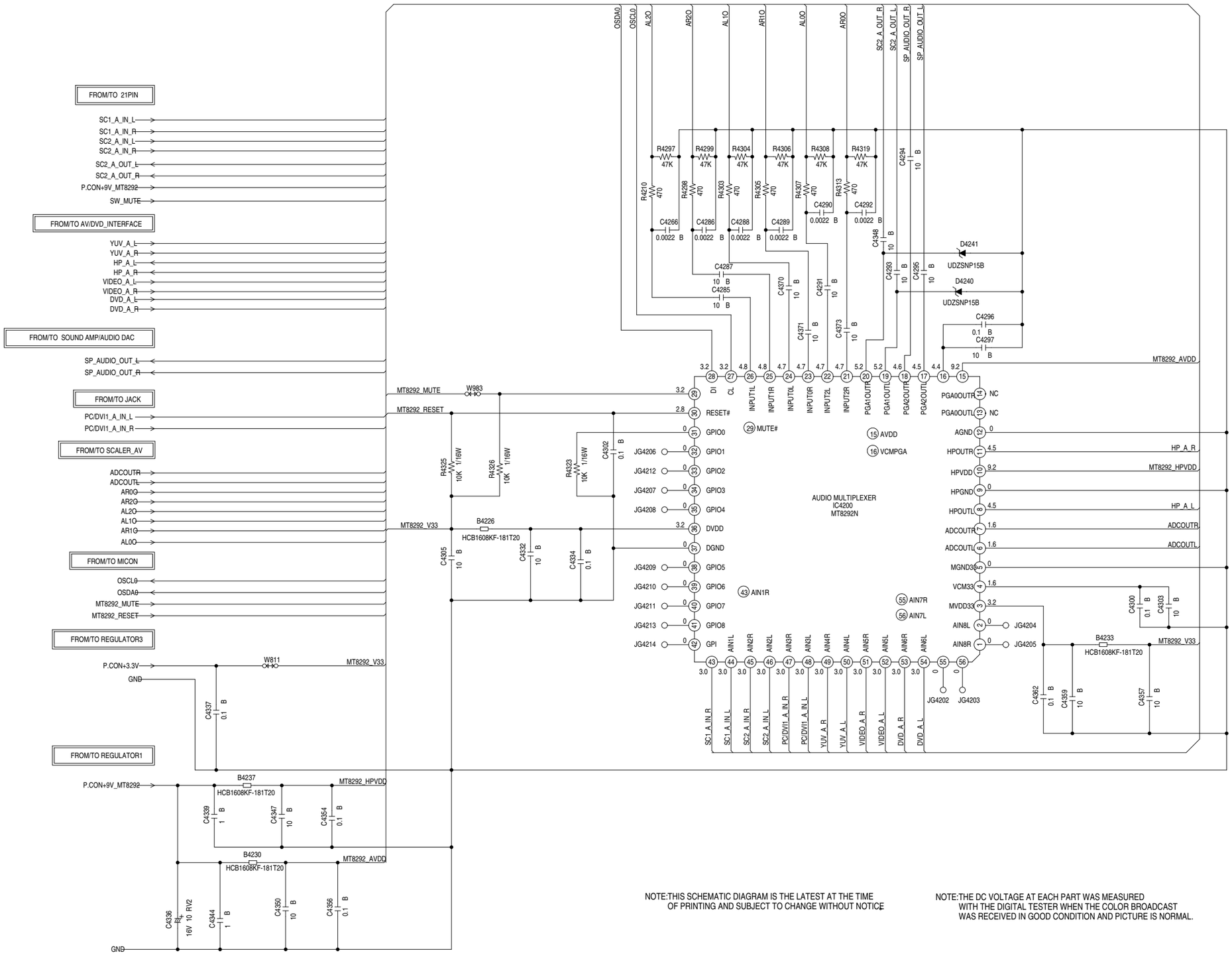


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

AUDIO SWITCH SCHEMATIC DIAGRAM

(MAIN PCB)



NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBF40
CMJ158

POWER SCHEMATIC DIAGRAM
(POWER PCB)

CHASSIS GND
GAP
F3802 SCT_2.5A250V 6.3A 250V/T 2.5A L 250V
W808
D3806 DA38-102MB-M
L3801 JLB28120
W803
W804
D3804 S10K300E2S5M4
C3808 310V 0.22 LE-MX
C3813 310V 0.22 LE-MX
C3801 310V 0.1 LE-MX
W844
W845
J3801_1 CCT2302-0721C
NC
6.3A 250V
F3801 SCT_2.5A250V 6.3A 250V/T 2.5A L 250V
W805
W806
R3811 1.2M 1W RCR
W611
R3812 12M 1W RCR
C3810 E 250V 0.001
C3809 250V 0.001
C3812 E 250V 0.001
C3811 250V 0.001 E
CHASSIS GND
GND
TH3801 4D2-22LCS
D3803 D5SB80
R3825 (SMALL) 0.22 1W
C3805 400V 330 HC
R3801 390K 1/16W
R3802 390K 1/16W
R3809 390K 1/16W
R3817 390K 1/16W
R3824 390K 1/16W
R3808 390K 1/16W
R3816 390K 1/16W
R3819 270K 1/16W
R3830 10K 1/4W
C3820 50V 10 YXF_P
C3814 50V 0.01 B
R3828 27K 1/16W
C3818 50V 0.001 B
R3826 16K 1/16W +-1%
R3831 470 1/16W +-1%
C3819 50V 10 YXF_P
C3815 25V 2.2 B 2125
FEED BACK IC3809 PS2561AL1-1-V(W)
R3813 1.5K 1/16W
R3810 1K 1/16W
R3815 4.7K 1/16W
C3804 0.001 M
C3802 50V 0.47 B
R3807 22K 1/16W
REGULATOR IC IC3801 KIA431A-AT
CATHODE ANODE REFERENCE
11.4 0 2.4
C3806_1 50V 0.1 B
R3818 100K 1/16W
R3821 20K 1/16W +-1%
R3822 1.5K 1/16W +-1%
R3820 20K 1/16W +-1%
R3823 4.7K 1/16W +-1%
INV_SW+24V
GND
6.3A 250V
3.15A 250V
7A 250V

EPT,FB,Vdd-GNDC PIN
IC3803 VIPER28LN
EPT D D
FB CONT Vdd S
B3802 BLM31PG121SN1L
D3815 RL106F-E
R3860 2.2 1/4W
R3861 82K 1W
C3836 1KV 15P SL
C3839 1KV 0.0022 R
T3802 81190141
D3808 1N4006-A5
D3807 1N4006-A5
C3825 400V 22 PT
W812
C3830 25V 0.033 B
R3843 10K 1/16W
C3831 50V 0.0033 B
R3847 68K 1/16W
R3856 330K 1/16W
D3816 1SS133
R3854 4.7 1/16W
C3845 50V 0.0022 B
C3834 50V 22 YXF_P
D3832 HZS22NB2
D3817 EC11FS4
C3870 2KV 220P R
R3859 10 1/4W
R3857 68 1/4W
D3833 MTZJ18B
C3835 50V 47 YXF_P
D3818 EC11FS4
R3832 33 1/4W
R3833 1K 1/16W
POWER SW IC3810 PS2561AL1-1-V(W)
R3835 10K 1/4W
VCC SW Q3802 KTA1281_Y
MAIN POWER VCC SW
R3849 1K 1/16W
SOFT SWITCH Q3807 KTC3875S_Y_RTK
R3852 10K 1/16W
R3850 10K 1/4W
R3834 4.7K 1/16W
R3840 1K 1/16W
Q3813 KTA1271_Y
Q3814 KTC3198
C3838 0.01 B
R3838 10K 1/4W
D3812 MTZJ30B
R3844 470 1/4W
INV_SW+24V
GND
RLY_H
FEED BACK IC3808 PS2561AL1-1-V(W)
R3862 470 1/16W
R3863 1K 1/16W
C3846 50V 4.7 YXF_P
REGULATOR IC IC3804 KIA431A-AT
CATHODE ANODE REFERENCE
R3868 47 1/16W +-1%
R3869 6.8K 1/16W +-1%
R3870 4.7K 1/16W +-1%
C3857 0.001 M
R3865 3.3K 1/16W
C3847 0.022 B
D3824 MTZJ11B
R3866 1K 1/4W
R3873 10K 1/16W
POWER FAIL SWITCH Q3809 KTA1504S_Y_RTK
R3878 910 1/16W
R3879 82K 1/4W
D3825 FCHS10A08
L3803 10uH TSL0808
C3850 10V 1000 ZL_P
C3852 10V 470 YXF_P
AT+6V
W835
GND
MOTOR_GND
D3820 1F5-E
R3874 470 1/4W
R3864 100 1/2W
FROM/TO REGULATOR
SW+12V
M_GND
SOUND+B
AT+6V
SW+12V[UNREG]
INV_PGND
INV_SW+24V
GND
POWER_FAIL
RLY_H
POWER_ON_H
GND
SOUND_GND

SWLINE MOSFET
POWER CONTROL IC3802 MCZ5203NA-7101
Vsen FB CT RT GND TIMER SS VC1
VGH VS VB (NC) VGL PGND VC2 OCP
Vs-VbCPIN
D3809 SMAB34
R3839 10 1/16W
R3842 10K 1/16W
C3826 25V 0.1 B
D3813 HZS15NB2
D3810 1H6-A2
R3836 10 1/4W
R3841 10K 1/16W
C3827 25V 2.2 B 2125
C3828 25V 1 B 2125
R3851 0.22 2W
R3855 0.22 2W
C3837 630V 0.033 FGSM
R3845 10 1/16W
R3837 47 1/16W
R3846 10 1/16W
D3805 MTZJ30B
C3821 50V 0.1 B
C3822 50V 1 B 2125
CPIN
C3824 50V 0.01 B
D3814 KDR730E-RTK/P
POWER SWITCH Q3805 STF10NK50Z
POWER SWITCH Q3806 STF10NK50Z
C3832 1KV 470P R
C3833 1KV 0.001 R
C3856 2KV 0.001 R
HS3801 763WAAA070
HS3804 763WAAA070
CAUTION: ⚠ IS THE LIVE CONNECTION

T3801 8728002H
D3821 FCQS10A065
W848
C3849 25V 1000 ZLJ
R3871 22K 1/4W
W819
W818 INV_PGND
SOUND_GND
W817 SOUND+B
D3819 FCQS10A045
W846
W847
L3802 10uH TSL0808
SW+12V[UNREG]
C3848 25V 1000 ZLJ
R3867 22K 1/4W
C3853_2 16V 4700 PX
GND
D3822 FCHS10A08
INV_SW+24V
C3851 35V 1000 ZLH_P
C3855 35V 1000 ZLH_P
HS3802 763WAAA167
INV_PGND

PCB240
CEJ549

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE
6.3A 250V(F3801,F3802),7A 250V(F3807) 3.15A 250V(F3801,F3802)

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE
6.3A 125V(F3801),7A 250V(F3803,F3804) 3.15A 250V(F3801,F3802)

CAUTION: F3807 ARE MANUFACTURED BY SKYGATE CO.,LTD., TYPE 20N. F3804,F3805,F3806 ARE MANUFACTURED BY COOPER ELECTRONIC TECHNOLOGIES CO.,LTD, TYPE 1206FA-T.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE: THE RESISTOR MARKED F IS FUSE RESISTOR. THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP IS NON POLAR ONE.

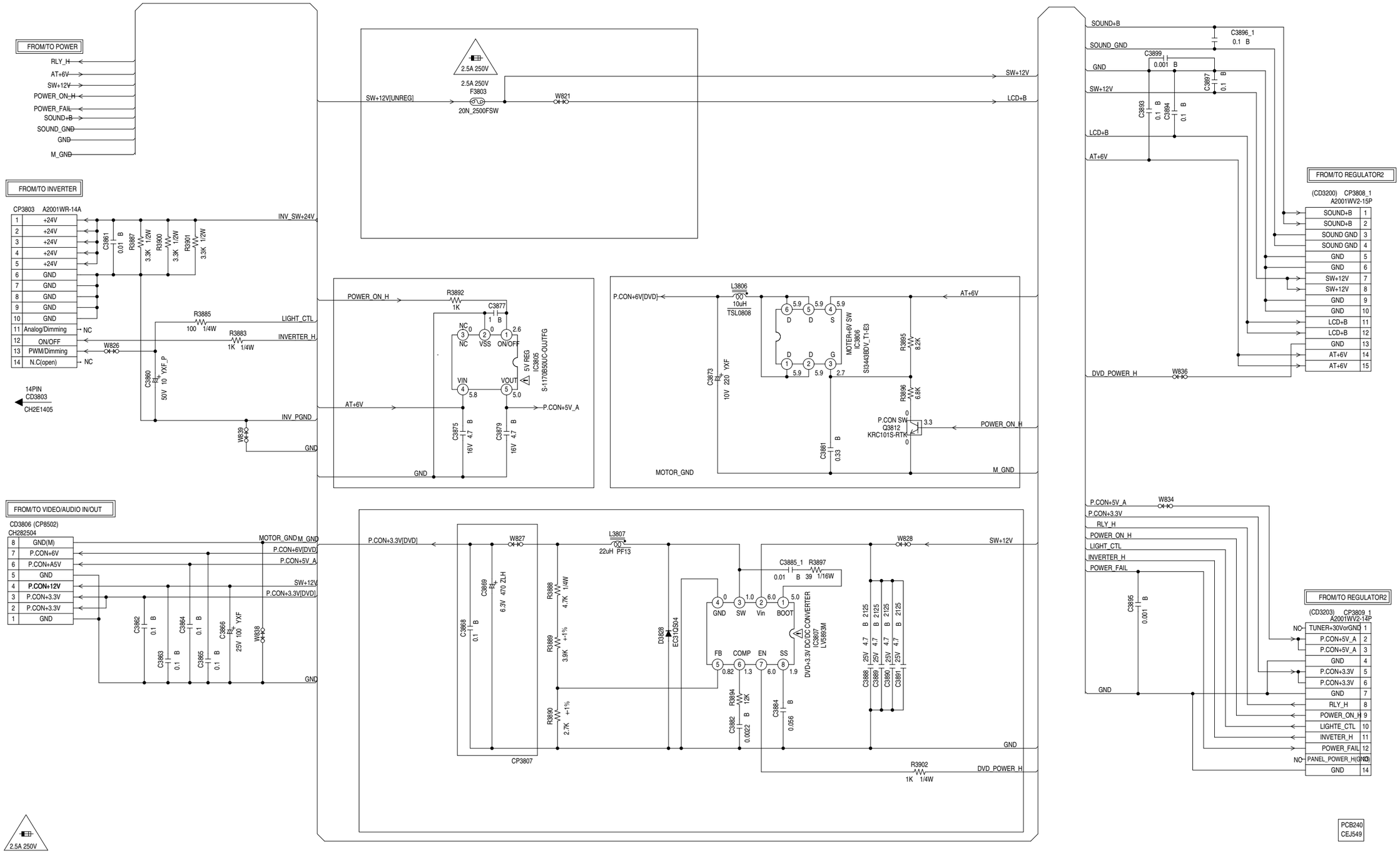
ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

CAUTION: DIGITAL TRANSISTOR

REGULATOR2 SCHEMATIC DIAGRAM

(POWER PCB)



2.5A 250V

CAUTION:FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 2.5A 250V(F3803)

ATTENTION:POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 2.5A 250V(F3803)

CAUTION:F3803 ARE MANUFACTURED BY SKYGATE CO.,LTD., TYPE 20N.

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

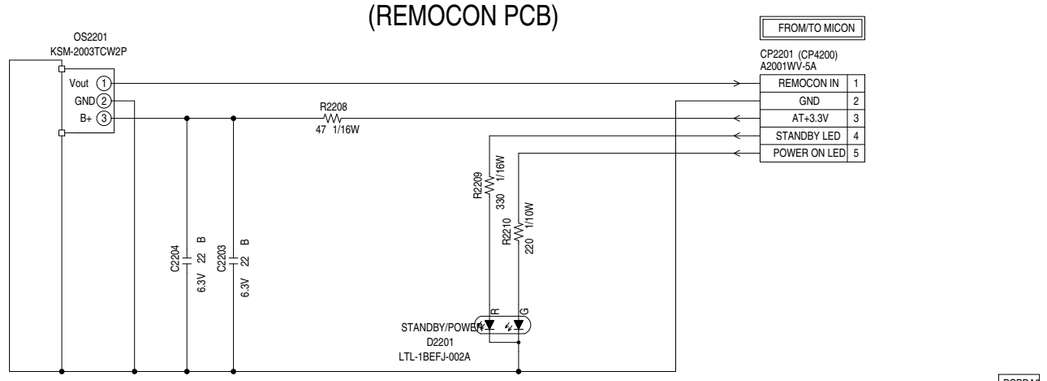
ATTENTION LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

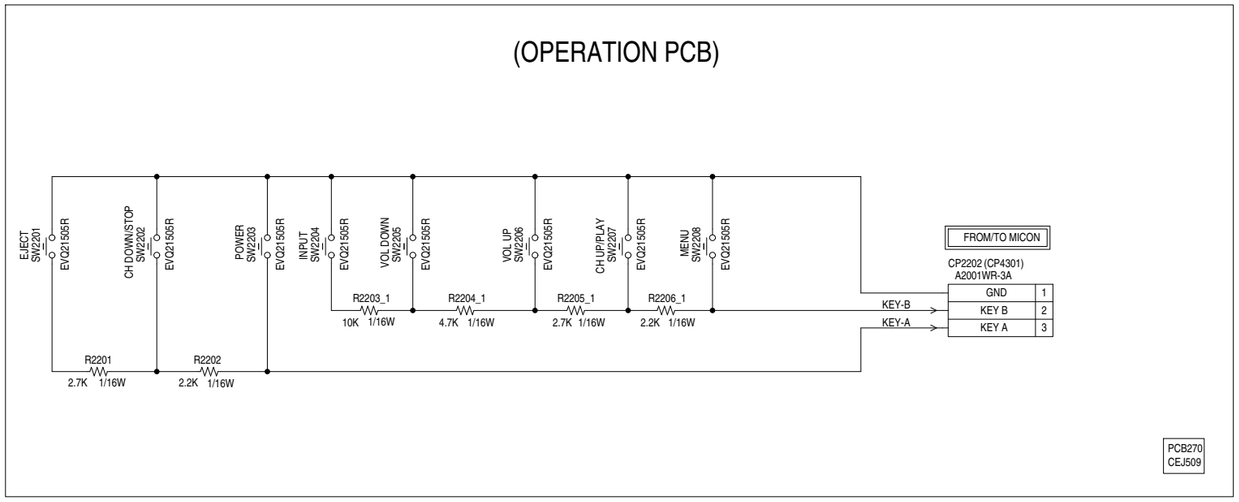
OPERATION/REMOCON SCHEMATIC DIAGRAM

(POWER PCB)

(REMOCON PCB)



(OPERATION PCB)



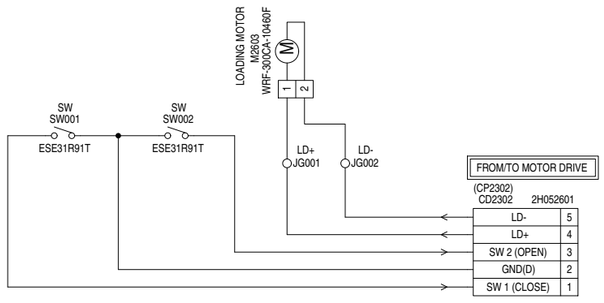
PCB240
CEJ549

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

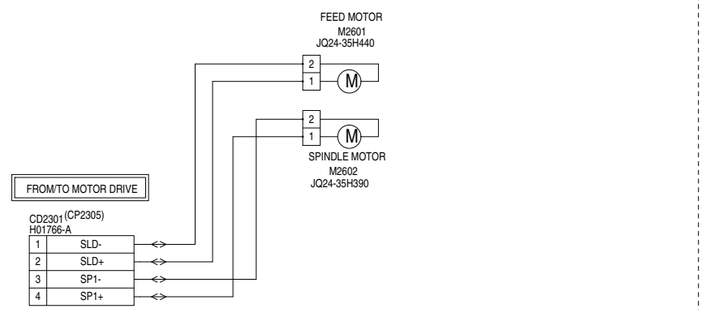
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

LOADING MOTOR SCHEMATIC DIAGRAM

(LOADING MOTOR PCB)



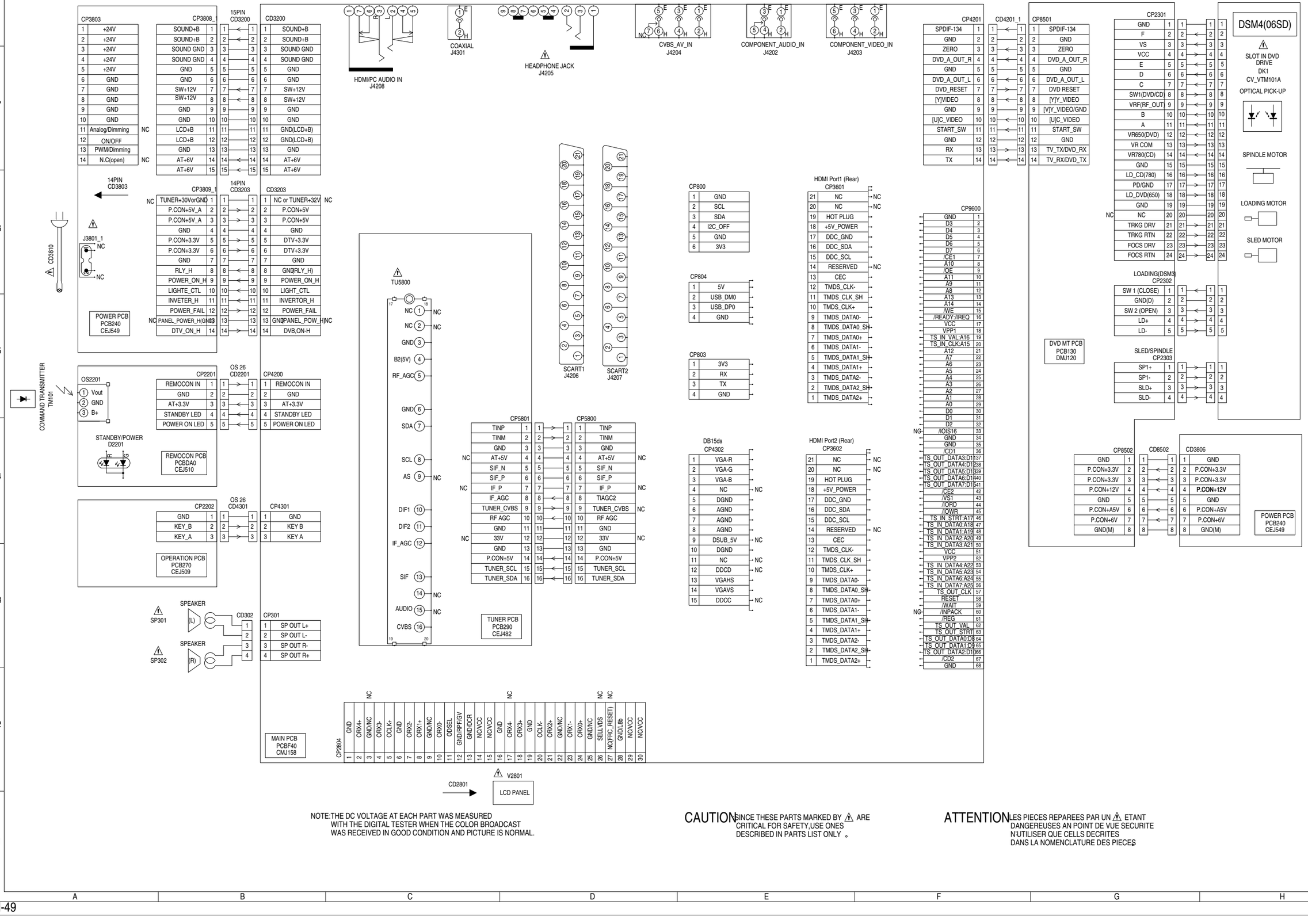
(PCB)



NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

INTERCONNECTION DIAGRAM



NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

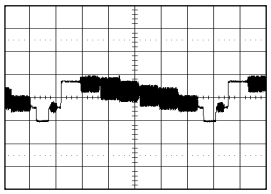
ATTENTION LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

WAVEFORMS

21PIN

10us
0.5V

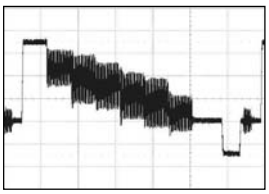
1



21PIN

10us
0.2V

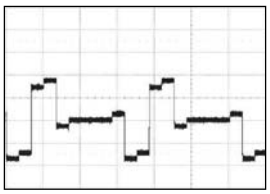
7



AV/DVD_INTERFACE

20us
0.2V

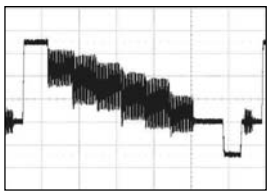
13



AV/DVD_INTERFACE

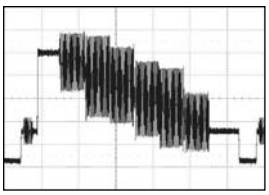
10us
0.2V

2



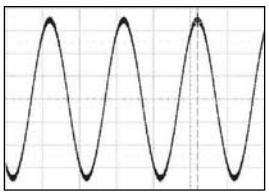
10us
0.2V

8



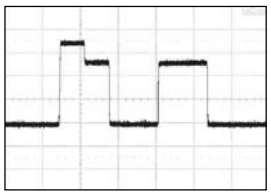
500us
0.2V

14



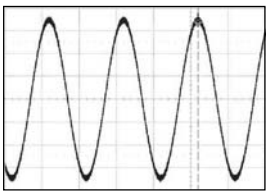
10us
0.2V

3



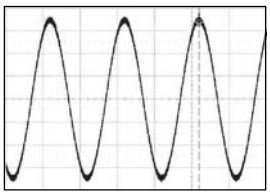
500us
0.2V

9



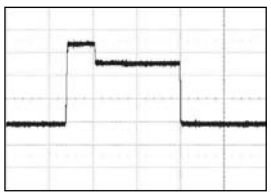
500us
0.2V

15



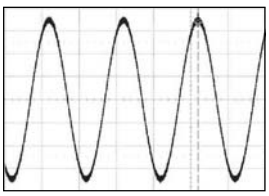
10us
0.2V

4



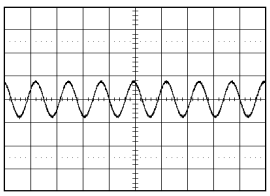
500us
0.2V

10



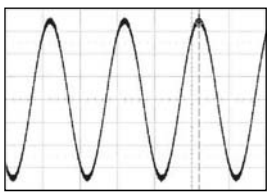
2ms
100mV

16



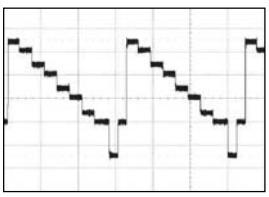
500us
0.2V

5



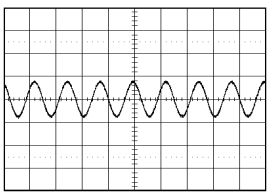
20us
0.2V

11



2ms
100mV

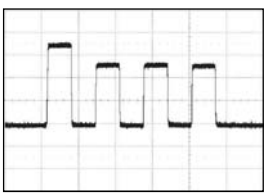
17



SOUND AMP/AUDIO DAC

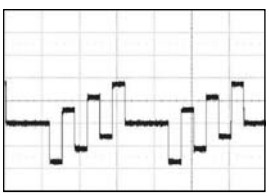
500us
0.2V

6



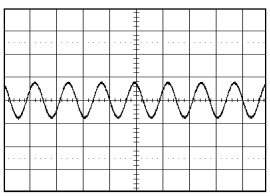
20us
0.2V

12



2ms
100mV

18



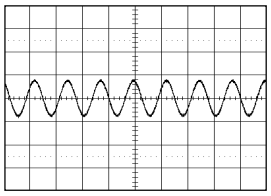
NOTE: The following waveforms were measured at the poi of the corresponding balloon number in the schematic diagram.

WAVEFORMS

SOUND AMP/AUDIO DAC

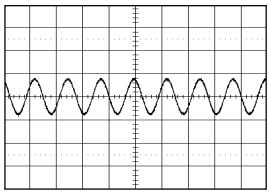
2ms
100mV

19



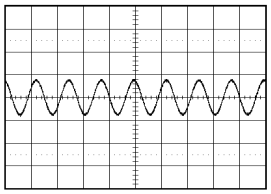
2ms
500mV

20



2ms
500mV

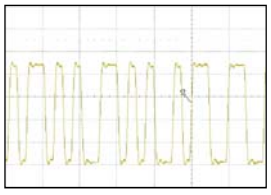
21



JACK

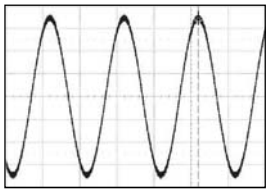
1us
0.2V

22



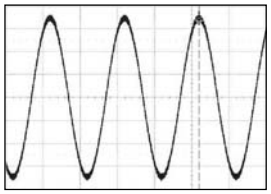
10us
0.2V

23



10us
0.2V

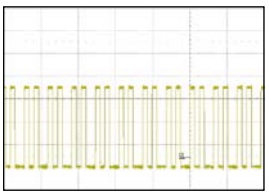
24



JACK

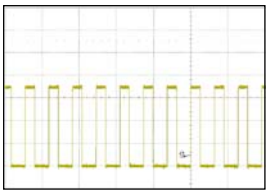
50us
0.2V

25



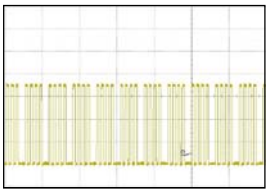
10us
0.2V

26



10us
0.2V

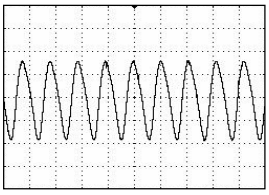
27



MICON

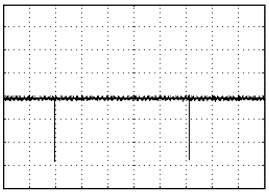
500us
0.5V

28



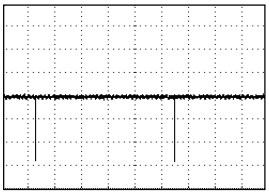
200ms
1V

29



200ms
1V

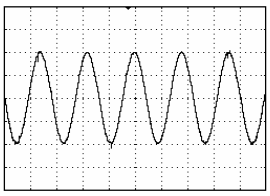
30



COMMON INTERFACE

1ms
0.5V

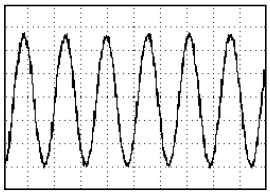
31



MPEG/MICON/DSP

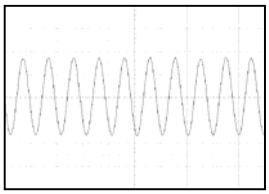
5ns
200mV

50



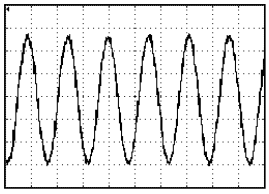
20ns
200mV

51



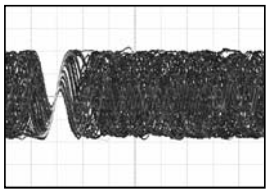
5ns
200mV

54



200ns
200mV

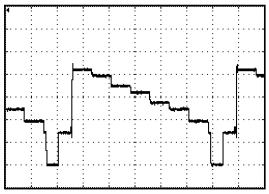
55



VIDEO/AUDIO IN/OUT

10us
200mV

56



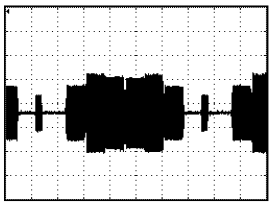
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

VIDEO/AUDIO IN/OUT

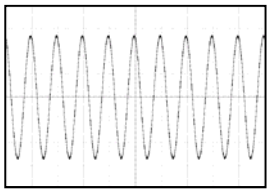
10us
200mV

57



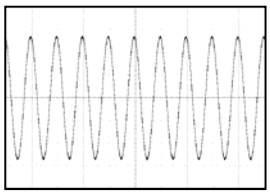
1ms
1V

58



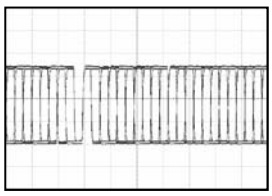
1ms
1V

59



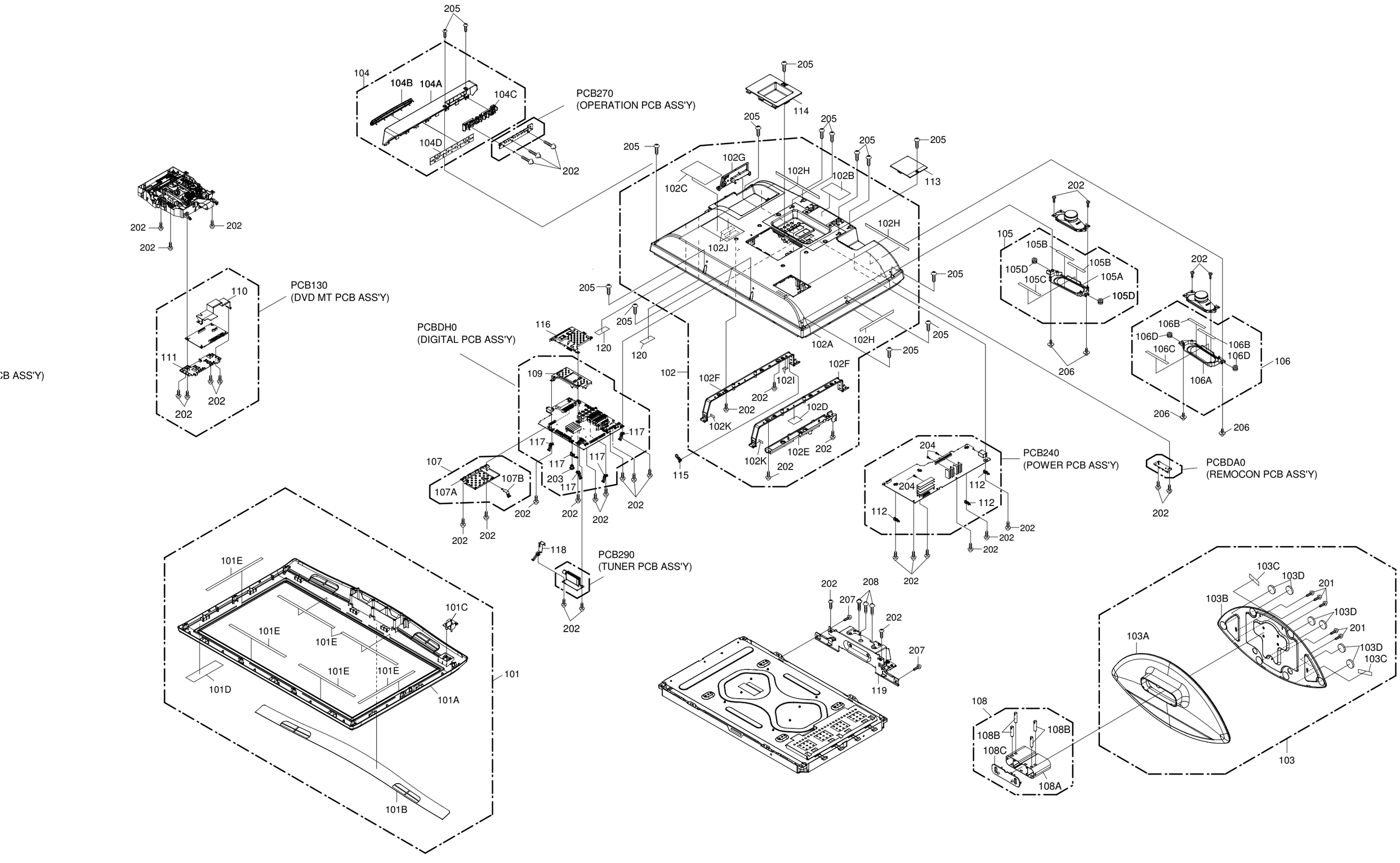
500ms
1V

60

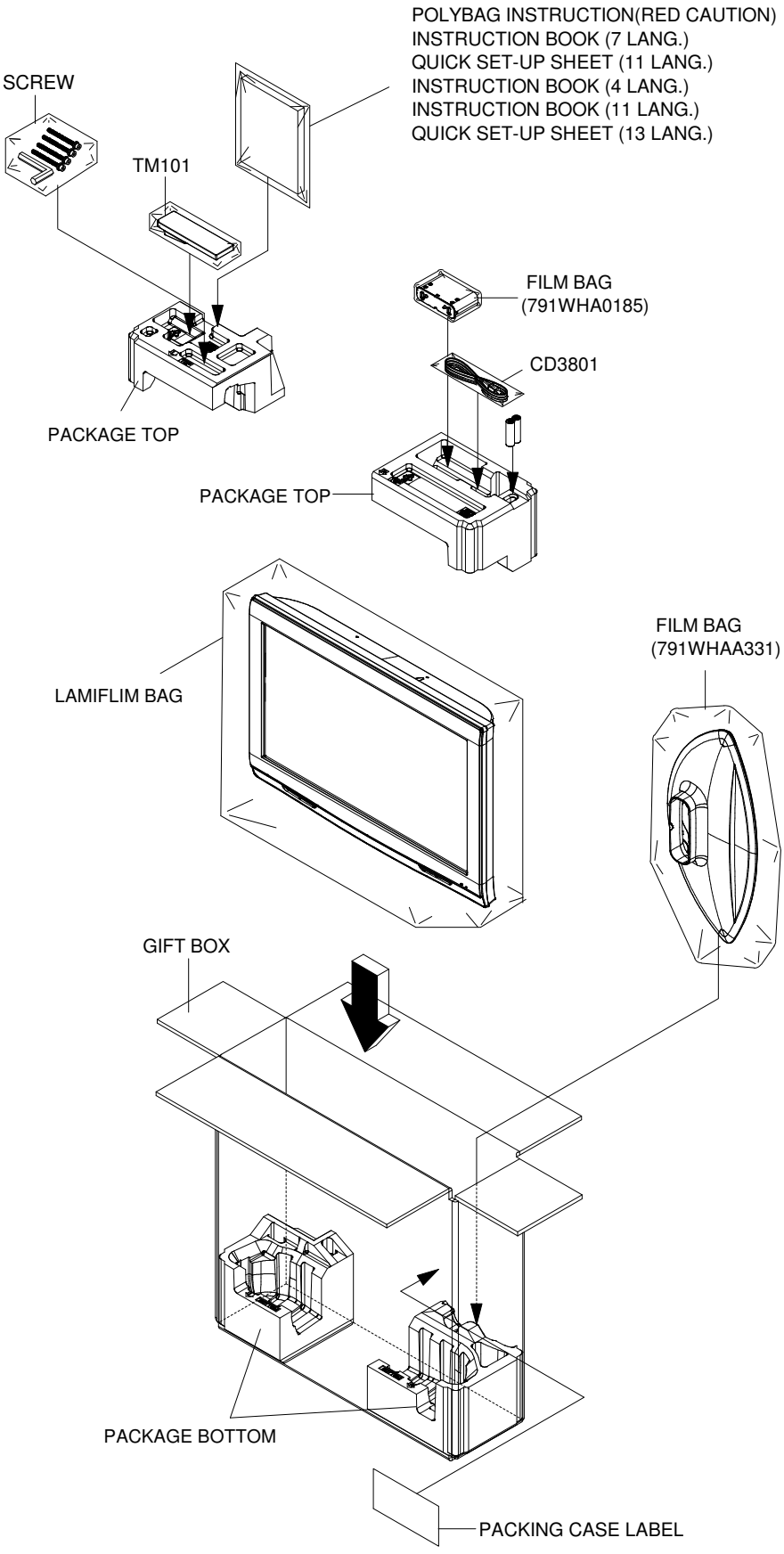


NOTE: The following waveforms were measured at the poir of the corresponding balloon number in the schematic diagram.

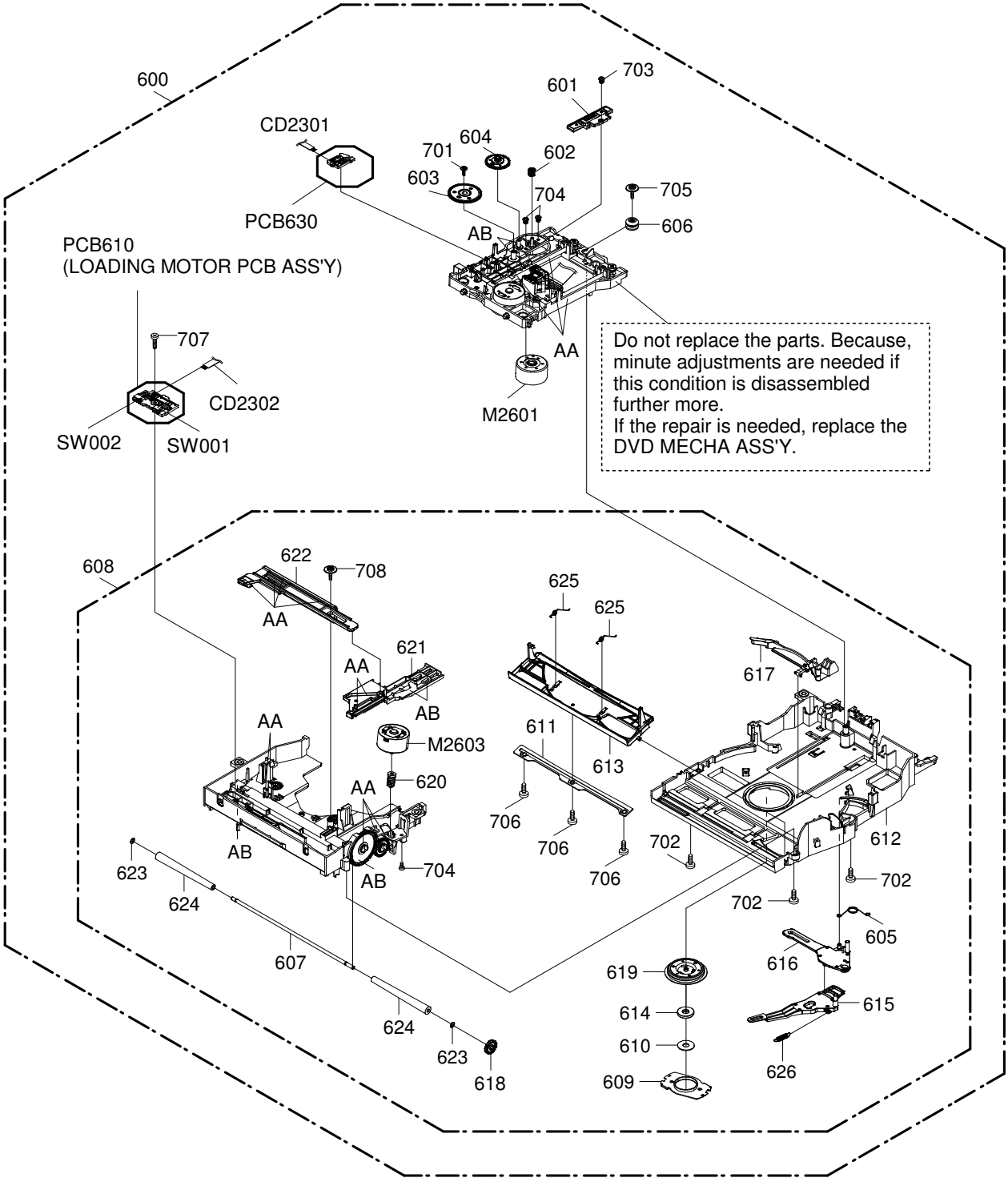
MECHANICAL EXPLODED VIEW



MECHANICAL EXPLODED VIEW
(PACKING DIAGRAM)



DVD DECK EXPLODED VIEW



CLASS	PART NO.	PART NAME	MARK
GREASE	Y315141000	G-313Y	AA
	Y31D041000	CFD-5007Z	AB

NOTE: Applying positions AA and AB for the grease are displayed for this section. Check if the correct grease is applied for each position.

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
101	9JD7A708A394A	FRONT CABI ASS'Y	
101A	9JD708WPDA287	CABINET FRONT	
101B	9JD702WNA0022	SHEET SPEAKER	
101C	9JD713WPA0434	GLASS LED	
101D	9JD723000E509	POP LABEL DVD	
101E	9JD800WQ00181	FELT SHEET	
102	9JD7A702B087A	BACK CABI ASS'Y	
102A	9JD702WPAB597	CABINET BACK	
102B	9JD723000E444	SHEET JACK	
102C	9JD723527A173	SHEET RATING	
102D	9JD7290000207	DOUBLE FACE TAPE	
102E	9JD761WPA0577	COVER PLATE	
102F	9JD761WSA0760	ANGLE MAIN	
102G	9JD771WPAA138	PLATE JACK	
102H	9JD800WQ0A216	FELT SHEET	
102I	9JD800WQ00193	FELT SHEET	
102J	9JD800WQ0A298	FELT SHEET	
102K	9JD800WQ00195	FELT SHEET	
103	9JD7A704A252A	STAND ASS'Y	
103A	9JD704WPA0092	STAND	
103B	9JD761WSA0465	ANGLE STAND	
103C	9JD800WFAA035	CUSHION LEG	
103D	9JD800WFA0120	CUSHION LEG	
104	9JD7A711A230A	PANEL SIDE ASS'Y	
104A	9JD711WPDA953	PANEL SIDE	
104B	9JD711WPBA022	SLOT DVD	
104C	9JD735WPBB667	BUTTON FRAME	
104D	9JD800WQ00175	FELT SHEET (DVD)	
105	9JD7A7610006A	HOLDER SPEAKER-L ASS'Y	
105A	9JD761WPA0571	HOLDER SPEAKER-L	
105B	9JD800WF00074	CUSHION 100*5*T1	
105C	9JD800WQ00116	FELT SHEET 9*60*T1.0	
105D	9JD800WR00084	DAMPER SPEAKER	
106	9JD7A7610007A	HOLDER SPEAKER-R ASS'Y	
106A	9JD761WPA0572	HOLDER SPEAKER-R	
106B	9JD800WF00074	CUSHION 100*5*T1	
106C	9JD800WQ00116	FELT SHEET 9*60*T1.0	
106D	9JD800WR00084	DAMPER SPEAKER	
107	9JD7G752A014A	SHIELD DIGITAL-BOTTOM ASS'Y	
107A	9JD752WSA0753	SHIELD DIGITAL-BOTTOM	
107B	9JD753WUAA025	SPRING EARTH H/AMP	
108	9JD7A764A009A	FRAME STAND ASS'Y	
108A	9JD761WEA0035	FRAME STAND	
108B	9JD704WPA0081	HOLDER STAND	
108C	9JD761WPA0470	COVER FRAME STAND	
109	9JD752WSAA173	SHIELD IC	
110	9JD761WSA0812	SHIELD LVDS BOTTOM	
111	9JD761WSA0813	SHIELD LVDS	
112	9JD744WEA0005	SPRING EARTH	
113	9JD702WPAB546	COVER INVERTER	
114	9JD702WPAB598	COVER LVDS	
115	9JD709WPA0054	HOLDER WIRE	
116	9JD752WSA0752	SHIELD DIGITAL-TOP	
117	9JD744WEA0006	SPRING EARTH	
118	9JD753WUA0100	SPRING TUNER	
119	9JD761WSAA230	ANGLE HINGE	
120	9JD800WQ0A253	FELT SHEET	
201	9JD811063080U	SCREW TAP TITE(P) BRAZIER	3x8
202	9JD8109230A0U	SCREW TAP TITE(B) BIND	3x10
203	9JD8900P3545B	RIVET	
204	9JD8109I30A0U	SCREW TAP TITE(B) WH7	3x10
205	9JD8109230A4S	SCREW TAP TITE(B) BIND	3x14
206	9JD8171130A0U	SCREW TAP TITE(B) WASHER12	3x10
207	9JD810A14080U	SCREW WASHER(A)	M4x8
208	9JD8117540A0U	SCREW TAPPING(B0) TRUSS	4x10
---	9JD723527A174	PACKING CASE LABEL	
---	9JD791WHA0185	FILM BAG	
---	9JD791WHAA264	LAMIFILM BAG	
---	9JD791WHAA331	FILM BAG	
---	9JD792PHAA050	PACKAGE TOP	
---	9JD792PHAA051	PACKAGE BOTTOM	
---	9JD793PCDA251	GIFT BOX	
---	9JD89001122A2	SCREW	
---	9JDJ54B0101B	INSTRUCTION BOOK(7 LANG.)	
---	9JDJ54B0107A	QUICK SET-UP SHEET(11 LANG.)	
---	9JDJ54B0110B	INSTRUCTION BOOK(4 LANG.)	
---	9JDJ54B0111B	INSTRUCTION BOOK(11 LANG.)	
---	9JDJ54B0170A	QUICK SET-UP SHEET(13 LANG.)	
---	9JDJB5PD000	POLYBAG INSTRUCTION(RED CAUTION)	

DVD DECK REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		CODE
⚠600	9JDA54N01A650	DVD MECHA ASS'Y	A54N01A650	
601	9JD92AAA0026A	FEED RACK ASS'Y		
602	9JD92P100203A	GEAR MOTOR		
603	9JD92P100201A	GEAR FEED		
604	9JD92P100202A	GEAR MIDDLE		
605	9JD92P300035A	SPRING LEVER GUIDE		
606	9JD92P200018A	INSULATOR, R		
607	9JD92P500016A	SHAFT ROLLER		
608	9JDA54N01A700	LOADER SUB ASS'Y		
609	9JD92P000036A	COVER CLAMPER		
610	9JD92P000037A	PLATE CLAMPER		
611	9JD92P000039A	PLATE RETAINER		
612	9JD92P100222A	FRAME MAIN		
613	9JD92P100159A	RETAINER SHUTTER		
614	9JD92P400011A	MAGNET CLAMPER		
615	9JD92P100161A	LEVER DISC		
616	9JD92P100162A	LEVER GUIDE		
617	9JD92P100218A	GUIDE DISC		
618	9JD92P100164A	GEAR ROLLER		
619	9JD92P100165A	CLAMPER		
620	9JD92P100172A	GEAR WORM		
621	9JD92P100175A	RACK LEVER		
622	9JD92P100176A	PLATE TRVS UD		
623	9JD92P100180A	LUMIRROR WASHER		
624	9JD92P200020A	ROLLER CONE		
625	9JD92P300033A	SPRING SHUTTER		
626	9JD92P300034A	SPRING LEVER DISC		
701	9JD92P700020A	SCREW TAP TITE(P) PAN	WH5.4 1.7x8	
702	9JD92P700018A	SCREW TAP TITE(P) BIND	2.6x8	
703	9JD813381750U	SCREW,T-TITE(B)CAMERA PAN	M1.7x5.0 P3	
704	9JD814011723U	SCREW,PAN	M1.7x2.3 P3	
705	9JD92P700021A	SCREW TAP TITE(P) PAN	WH8 2x8	
706	9JD810922030U	SCREW TAP TITE(B) BIND	2x3	
707	9JD810922060U	SCREW,TAP TITE(B) BIND	2x6	
708	9JD92P700017A	SCREW TAP TITE(P)BIND WH7	M2.6x8	
CD2301	9JD12C1042202	CORD JUMPER	FFC100422505030800T8-004	
CD2302	9JD12C1052702	CORD JUMPER	FFC100527005030800T8-004	
M2601	9JD1515U98007	MOTOR	JQ24-35H440	
M2603	9JD1596L98004	MOTOR,LOADING	WRF-300CA-10460F	or
	9JD1515U98009	MOTOR	JQ24-35H440B	
PCB610	9JDA52C01T610	LOADING MOTOR PCB ASS'Y	FEH002B	
PCB630	9JD13FEJ006AW	PCB	FEJ006A	
SW001	9JD0500101042	PUSH SWITCH	ESE31R11T	
SW002	9JD0500101042	PUSH SWITCH	ESE31R11T	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
		REMOCON PCB ASS'Y	
		*** PCB ***	
PCBDA0	9JDA54Z01ADA0M	REMOCON PCB ASS'Y	CEJ551A
		*** DIODES ***	
D2201	9JD0021E9Q010	LED	LTL-1BEFJ-002A
		*** OTHERS ***	
CP2201	9JD06GG250029	CONNECTOR PCB SIDE	A2001WV-5A
OS2201	9JD077Q038009	REMOTE RECEIVER	KSM-2003TCW2P
		MAIN PCB ASS'Y	
		*** PCB ***	
PCBF40	9JDA54Z01AF40M	MAIN PCB ASS'Y	CMJ158A
		*** CAPACITORS ***	
C300	9JDE7EYT5101M	CE	100 UF 50V
C351	9JDP23220684J	CMP	0.68 UF 50V MMTC
C352	9JDP23220684J	CMP	0.68 UF 50V MMTC
C353	9JDE7EYF3102M	CE	1000 UF 25V
C354	9JDE7EYF3102M	CE	1000 UF 25V
		*** DIODES ***	
D301	9JDDDLRS160T0	DIODE SCHOTTKY BARRIER	SS160-T
D302	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D801	9JDDGJRT54WS0	DIODE SCHOTTKY BARRIER	BAT54WS
D802	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D803	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D812	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D813	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D814	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D815	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D816	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D817	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D818	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D819	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D820	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D821	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D822	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D823	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D824	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D825	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D827	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D3000	9JDD2ARMAB340	DIODE SCHOTTKY	SMAB34
D3001	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D3002	9JDDE7RB3R92B	DIODE ZENER	UDZSNP3.9B TE-17
D3011	9JDD2ARMAB340	DIODE SCHOTTKY	SMAB34
D3600	9JDDGJRT54WS0	DIODE SCHOTTKY BARRIER	BAT54WS
D3602	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D3603	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D3613	9JDDDLRS160T0	DIODE SCHOTTKY BARRIER	SS160-T
D3615	9JDDGJRT54WS0	DIODE SCHOTTKY BARRIER	BAT54WS
D3617	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D3618	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4205	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4206	9JDDDLRS160T0	DIODE SCHOTTKY BARRIER	SS160-T
D4211	9JDDDLRS160T0	DIODE SCHOTTKY BARRIER	SS160-T
D4214	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4215	9JDDDLRS160T0	DIODE SCHOTTKY BARRIER	SS160-T
D4216	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4217	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4219	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4220	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4221	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17

ELECTRICAL REPLACEMENT PARTS LIST

D4222	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4223	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4224	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4233	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4236	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4237	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4239	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4240	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4241	9JDDE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
D4247	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4248	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4249	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010

*** ICS ***

⚠ IC300	9JDI0KJP8932B	SOUND AMP 15W D-AMP	TDA8932BT/N2,118
IC800	9JDIC8M053620	SCALER 470PIN BGA	MT5362CHG
IC802	9JDIGXM05162E	DDR2-800 512M CL=5	H5PS5162FFR-S5C
IC803	9JDIGXM05162E	DDR2-800 512M CL=5	H5PS5162FFR-S5C
IC804	9JDICRJ032CN0	EEPROM SOIC M32P	AT24C32CN-SH-T
IC806	9JDI9UF032290	RESET IC 2.9V TYPE	PST3229NR
IC2401	-----	MEMORY DATA NAND FLASH 256M	HY27US08561A-TP
⚠ IC2402	9JDI0GF95ZN10	VO=0.8-3.5V I=1.5A TAPING	PQ035ZN1HZPH
IC2403	9JDICRJ0F0810	NOR FLASH 8M SPI	AT26DF081A-SU
⚠ IC3002	9JDI07F078200	VARIABLE REG LOW INPUT IO=1A	BD7820FP-E2
⚠ IC3003	9JDI1ZF9331D0	REGULATOR 3.3V	RP131H331D-T1-F
⚠ IC3004	9JDI1ZF9181D0	REGULATOR 1.8V	RP131H181D-T1-F
⚠ IC3005	9JDI53F958090	2.5A 1CH STEP DOWN SW REG	LV5809MX
⚠ IC3006	9JDI1ZF9251D0	REGULATOR 2.5V	RP131H251D-T1-F
⚠ IC3007	9JDI1ZF9090B0	REG VOUT=9V HSOP 6PIN	R1190S090B-E2-F
⚠ IC3008	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
⚠ IC3009	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
⚠ IC3010	9JDI53F958090	2.5A 1CH STEP DOWN SW REG	LV5809MX
⚠ IC3013	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
IC3600	9JDS54B01WE01	MEMORY DATA EEPROM 2K I2C	AT24C02BN-SH-T
IC3601	9JDS54Z01AE01	MEMORY DATA EEPROM 2K I2C	AT24C02BN-SH-T
IC4200	9JDIC8NF82920	AUDIO MULTIPLEXER 56PIN QFN	MT8292N
IC4201	9JDI0UF015020	A/V SW 2INPUT 1OUTPUT 6DBAMP	MM1502XNRE
IC7200	9JDIFJJ085210	AUDIO DAC 2V RMS LINE OUT	WM8521HCGED/RV
IC9600	9JDIC8K082950	DTV SYSTEM IC 128PIN QFP	MT8295AE

*** TRANSISTORS ***

Q300	9JDTPAAA05001	COMPOUND TRANSISTOR	KRA101SRTK
Q301	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
Q307	9JDTPAAB05001	COMPOUND TRANSISTOR	KRA102SRTK
Q308	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q800	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3001	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q3002	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3003	9JDTL4A01664Y	TRANSISTOR SILICON	KTA1664-Y(GP)
Q3004	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q3005	9JDTL4A01664Y	TRANSISTOR SILICON	KTA1664-Y(GP)
⚠ Q3012	9JDTJ5MC61080	FET	TPC6108
Q3602	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3609	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4201	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
Q4202	9JDTPAAB05001	COMPOUND TRANSISTOR	KRA102SRTK
Q4203	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4204	9JDTPAAB05001	COMPOUND TRANSISTOR	KRA102SRTK
Q4207	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4208	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4209	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4210	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4212	9JDT27T035410	FET	2SK3541_T2L
Q4214	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4215	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4216	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4217	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q4218	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4219	9JDT27T035410	FET	2SK3541_T2L
Q4220	9JDT27T035410	FET	2SK3541_T2L
Q4221	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
Q4222	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q5800	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK

ELECTRICAL REPLACEMENT PARTS LIST

*** COILS ***

B300	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B301	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B302	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B306	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B307	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B308	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B800	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B801	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B802	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B803	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B804	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B805	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B806	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B807	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B808	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B809	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B810	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B821	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B826	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B827	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B828	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B829	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B830	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B831	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B2401	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2800	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2801	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2802	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2805	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B3005	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B3600	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B3601	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4200	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4203	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4204	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4205	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4206	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4207	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4208	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4209	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4210	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4212	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4213	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4214	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4216	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4217	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4218	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4219	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B4223	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4225	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4226	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4228	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B4229	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4230	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4231	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4232	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4233	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4236	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B4237	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4238	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4239	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4240	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4244	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4245	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4250	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B4253	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4301	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4302	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4303	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4304	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4305	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4306	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02

ELECTRICAL REPLACEMENT PARTS LIST

B4312	9JD024HC52213	CORE,BEADS	FCM1608KF-221T05
B4322	9JD024HC52213	CORE,BEADS	FCM1608KF-221T05
B4326	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B5800	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B5802	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B5803	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B5804	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B7200	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B9600	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9601	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9602	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9603	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9604	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9605	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
L300	9JD021D0N220M	COIL	22 UH
L301	9JD021D0N220M	COIL	22 UH
L3000	9JD021UMK100P	COIL	10 UH
L3001	9JD021UMK100P	COIL	10 UH
L3003	9JD021UMK100P	COIL	10 UH
L3600	9JD02D1000119	COIL CHOKE	EXC28CG900U
L3601	9JD02D1000119	COIL CHOKE	EXC28CG900U
L3602	9JD02D1000119	COIL CHOKE	EXC28CG900U
L3603	9JD02D1000119	COIL CHOKE	EXC28CG900U
L4200	9JD021ES11R8K	COIL	1.8 UH
L4201	9JD021ES11R8K	COIL	1.8 UH
		*** JACKS ***	
CP9600	9JD0639800006	HOLDER,IC	1857468-1
J4202	9JD060R431039	RCA JACK	RCA-228H(3)NI-02
J4203	9JD060R411058	RCA JACK	RCA-341H(NI)-09
J4204	9JD060R431040	RCA JACK	RCA-341H(2)NI-06
⚠ J4205	9JD060R131025	HEADPHONE JACK	PJ-317-02
J4206	9JD063Y100098	SOCKET,21PIN	RGB-56H
J4207	9JD063Y100098	SOCKET,21PIN	RGB-56H
J4208	9JD060R131024	HEADPHONE JACK	PJ-364H
J4301	9JD060R401140	RCA JACK	RCA-101HT(OR)
		*** CONNECTORS ***	
CD3200	9JD06CH2F0504	CORD CONNECTOR	CH2F0504
CD3203	9JD06CH2E0504	CORD CONNECTOR	CH2E0504
CP2804	9JD069S2U0739	CONNECTOR PCB SIDE	A2006WV0-2X15P
CP4200	9JD069S250639	CONNECTOR PCB SIDE	A2001WR2-5P
CP4301	9JD069S230639	CONNECTOR PCB SIDE	A2001WR2-3P
		*** CRYSTAL & CERAMIC OSCILLATORS ***	
X800	9JD100DT05403	CRYSTAL	DSX321G
X9600	9JD100GT02727	CRYSTAL	SMD-49 C27000J029
		*** NETWORKS ***	
NR2400	9JD110P4220M5	R,NETWORK	4D02WGJ0220TCE
NR2402	9JD110P4220M5	R,NETWORK	4D02WGJ0220TCE
NR2403	9JD110P4220M5	R,NETWORK	4D02WGJ0220TCE
NR2404	9JD110P4220M5	R,NETWORK	4D02WGJ0220TCE
NR2804	9JD110P4220M5	R,NETWORK	4D02WGJ0220TCE
NR2805	9JD110P4220M5	R,NETWORK	4D02WGJ0220TCE
NR2806	9JD110P4220M5	R,NETWORK	4D02WGJ0220TCE
NR9600	9JD110P4330M5	R,NETWORK	4D02WGJ0330TCE
		*** OTHERS ***	
CP301	9JD06GG140019	CONNECTOR PCB SIDE	A2502WR-4A
CP800	9JD06GG260029	CONNECTOR PCB SIDE	A2001WV-6A
CP803	9JD06GG240029	CONNECTOR PCB SIDE	A2001WV-4A
CP804	9JD06G5AA1002	CONNECTOR PCB SIDE	USB-A1D102F-4B4N
CP3601	9JD06GDYL3038	CONNECTOR PCB SIDE	1A0300030
CP3602	9JD06GDYL3038	CONNECTOR PCB SIDE	1A0300030
CP4201	9JD06GG2E0029	CONNECTOR PCB SIDE	A2001WV-14A
CP4302	9JD06G7S21501	CONNECTOR PCB SIDE	WD-00021-R
CP5800	9JD06GF2G0020	CONNECTOR PCB SIDE	WD-00028-R

ELECTRICAL REPLACEMENT PARTS LIST

SH3200	9JD126D000045	TERMINAL PIN	YQ-12
SH3204	9JD126D000045	TERMINAL PIN	YQ-12
SH3205	9JD126D000045	TERMINAL PIN	YQ-12
SH3206	9JD126D000045	TERMINAL PIN	YQ-12
		DVD MT PCB ASS'Y	
		*** PCB ***	
PCB130	9JDA54Z01A130M	DVD MT PCB ASS'Y	DMJ120B
		*** DIODES ***	
D2301	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
D2302	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
D4001	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
		*** ICS ***	
⚠ IC2301	9JDI1UFV5766S	5CH MOTOR DRIVER IC	AM5766
IC4001	9JDIC8K0389LD	DVD MPEG 128PIN MEDIATEK	MT1389DE/L-L
IC4004	-----	MEMORY DATA 16MBIT FLASH 100MHZ	EN25Q16-100HIP
IC4005	9JDIGXJ01620F	SDRAM 64M CL=2	HY57V641620FTP-7
IC8501	9JDI0QF045650	DUAL OPEAMP	NJM4565M(TE1)
IC8502	9JDI1ZF981D50	REGULATOR 1.8V	RP131H181D5-T1-F
		*** TRANSISTORS ***	
Q2301	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q2302	9JDTAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P
Q2303	9JDTAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P
Q2304	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q2305	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q8506	9JDT27T035410	FET	2SK3541_T2L
Q8507	9JDT27T035410	FET	2SK3541_T2L
		*** COILS ***	
B2341	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B2342	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B4003	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4008	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4010	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4012	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B8501	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B8502	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B8503	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B8504	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
L8501	9JD021ES11R8K	COIL	1.8 UH
		*** CONNECTORS ***	
CP2301	9JD069EVKT01C	CONNECTOR PCB SIDE	04_6232_422_008_868+
CP2302	9JD069EV5001C	CONNECTOR PCB SIDE	00_6232_005_006_894+
CP2303	9JD069EV4001C	CONNECTOR PCB SIDE	00_6232_004_006_894+
		*** CRYSTAL & CERAMIC OSCILLATORS ***	
X4001	9JD1003T02733	CRYSTAL	HC49SFWB
		*** NETWORKS ***	
NR4002	9JD11074330M7	R,NETWORK	CRA108330JV
		*** OTHERS ***	
CP8501	9JD06GG2E0019	CONNECTOR PCB SIDE	A2001WR-14A
CP8502	9JD06GG280019	CONNECTOR PCB SIDE	A2001WR-8A
SH8501	9JD126D000045	TERMINAL PIN	YQ-12
SH8502	9JD126D000045	TERMINAL PIN	YQ-12
		POWER PCB ASS'Y	

ELECTRICAL REPLACEMENT PARTS LIST

*** PCB ***

	PCB240	9JDA54Z01A240M	POWER PCB ASS'Y	CEJ549A

*** RESISTORS ***

⚠	R3811	9JDRC31X1125J	RC	1.2M OHM 1W
⚠	R3812	9JDRC31X1126J	RC	12M OHM 1W
⚠	R3825	9JDR3K781R22J	R,METAL OXIDE	0.22 OHM 1W
⚠	R3830	9JDR002T4103J	RC	10K OHM 1/4W
	R3851	9JDR3K78AR22J	R,METAL OXIDE	0.22 OHM 2W
	R3855	9JDR3K78AR22J	R,METAL OXIDE	0.22 OHM 2W
⚠	R3860	9JDR655842R2J	R,FUSE	2.2 OHM 1/4W
⚠	R3861	9JDR3K781823J	R,METAL OXIDE	82K OHM 1W
⚠	R3864	9JDR002T2101J	RC	100 OHM 1/2W

*** CAPACITORS ***

	C3801	9JDP4K12D104K	CMPP	0.1 UF 310V
⚠	C3805	9JDE718HH331D	CE	330 UF 400V
⚠	C3808	9JDP4K12D224K	CMPP	0.22 UF 310V
⚠	C3809	9JDCE39E0M13M	CC	0.001 UF 250V E
⚠	C3810	9JDCE39E0M13M	CC	0.001 UF 250V E
⚠	C3811	9JDCE39E0M13M	CC	0.001 UF 250V E
⚠	C3812	9JDCE39E0M13M	CC	0.001 UF 250V E
⚠	C3813	9JDP4K12D224K	CMPP	0.22 UF 310V
⚠	C3825	9JDE63ZFH220D	CE	22 UF 400V
	C3832	9JDC0340R6Q2K	CC	470 PF 1KV R
	C3833	9JDC0340R613K	CC	0.001 UF 1KV R
	C3836	9JDC234SL6E1J	CC	15 PF 1KV SL
⚠	C3837	9JDP4NBE5333J	CMPP	0.033 UF 630
⚠	C3839	9JDC0390R6H3K	CC	0.0022UF 1KV R
	C3840	9JDCE39E0MQ2K	CC	470 PF 250V E
	C3841	9JDCE39E0MQ2K	CC	470 PF 250V E
	C3848	9JDE9E8F3102D	CE	1000 UF 25V
	C3849	9JDE9E8F3102D	CE	1000 UF 25V
⚠	C3850	9JDE7EYT1102M	CE	1000 UF 10V
⚠	C3851	9JDE8E1G4102M	CE	1000 UF 35V
⚠	C3852	9JDE8E2T1471D	CE	470 UF 10V
	C3853	9JDE8E6F2472D	CE	4700 UF 16V
	C3855	9JDE8E1G4102M	CE	1000 UF 35V
	C3856	9JDC0PLRR713K	CC	0.001 UF 2KV R
	C3870	9JDC0PLRR7H2K	CC	220 PF 2KV R

*** DIODES ***

	D3803	9JDD2Z05SB800	DIODE,BRIDGE	D5SB80
⚠	D3804	9JDD7KE103020	DIODE VARISTA	S10K300E2S5M4
	D3805	9JDD97U03001B	DIODE,ZENER	MTZJ30B T-77
	D3806	9JDDOU011020M	DIODE VARISTA	DA38-102MB-M
⚠	D3807	9JDD4CTN40060	DIODE SILICON	1N4006-A5
⚠	D3808	9JDD4CTN40060	DIODE SILICON	1N4006-A5
	D3809	9JDD2ARMAB340	DIODE SCHOTTKY	SMAB34
	D3810	9JDD4CT01H6A0	DIODE RECTIFIER	1H6-A2
	D3812	9JDD97U03001B	DIODE,ZENER	MTZJ30B T-77
	D3813	9JDDJBUA15012	DIODE ZENER	HZS15NB2
	D3814	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
	D3815	9JDD4AT106FE0	DIODE RECTIFIER	RL106F-E
	D3816	9JDD1VT001330	DIODE,SILICON	1SS133T-77
	D3817	9JDD28R11FS40	DIODE SCHOTTKY	EC11FS4-TE12L
	D3818	9JDD28R11FS40	DIODE SCHOTTKY	EC11FS4-TE12L
	D3819	9JDD28A10A450	DIODE SCHOTTKY BARRIER	FCQS10A045
⚠	D3820	9JDD2LT001F50	DIODE SILICON	1F5-E
⚠	D3821	9JDD28A10A061	DIODE SCHOTTKY BARRIER	FCQS10A065
	D3822	9JDD28A10A080	DIODE SCHOTTKY BARRIER	FCHS10A08
	D3824	9JDD97U01101B	DIODE,ZENER	MTZJ11B T-77
⚠	D3825	9JDD28A10A080	DIODE SCHOTTKY BARRIER	FCHS10A08
	D3828	9JDD28R1QS040	DIODE	EC31QS04-TE12L
	D3830	9JDDJBUA15012	DIODE ZENER	HZS15NB2
	D3832	9JDDJBUA22012	DIODE ZENER	HZS22NB2
	D3833	9JDD97U01801B	DIODE,ZENER	MTZJ18B T-77

*** ICS ***

ELECTRICAL REPLACEMENT PARTS LIST

⚠	IC3801	9JDI1KJ9A431A	VARIABLE SHUNT REGULATOR TAPE	KIA431A-AT
⚠	IC3802	9JDI16D052030	CURRENT RESONANT CTL IC	MCZ5203NA-7101
⚠	IC3803	9JDI5PD028LN0	VIPER28LN	VIPER28LN
	IC3804	9JDI1KJ9A431A	VARIABLE SHUNT REGULATOR TAPE	KIA431A-AT
⚠	IC3805	9JDI5HJ950UC0	REGULATOR VO=5.0V IO=800MA	S-1170B50UC-OUJTFG
	IC3806	9JDTK9A3443B0	FET	SI3443BDV-T1-E3
⚠	IC3807	9JDI53F958930	1.8A 1CH STEP DOWN SW REG	LV5893M
⚠	IC3808	9JD000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
	IC3809	9JD000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
⚠	IC3810	9JD000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
			*** TRANSISTORS ***	
⚠	Q3802	9JDTAAT01281Y	TRANSISTOR SILICON	KTA1281_Y
⚠	Q3805	9JDTJXG10NK50	FET	STF10NK50Z
⚠	Q3806	9JDTJXG10NK50	FET	STF10NK50Z
	Q3807	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
	Q3809	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
	Q3812	9JDTNAAA05001	COMPOUND TRANSISTOR	KRC101S-RTK
	Q3813	9JDTAAT012714	TRANSISTOR, SILICON	KTA1271_Y-AT
	Q3814	9JDTCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
			*** COILS ***	
	B3802	9JD024AC1121G	CORE,BEADS	BLM31PG121SN1L
⚠	L3801	9JD029B000185	COIL,LINE FILTER	JLB28120
	L3802	9JD02167E100K	COIL	10 UH
	L3803	9JD02167E100K	COIL	10 UH
	L3806	9JD02167E100K	COIL	10 UH
	L3807	9JD021D0N220M	COIL	22 UH
			*** TRANSFORMERS ***	
⚠	T3801	9JD048728002H	TRANSFORMER,SWITCHING	8728002H
⚠	T3802	9JD0481190141	TRANSFORMER,SWITCHING	81190141
			*** JACKS ***	
⚠	J3801	9JD064Q2A0004	JACK,AC	CCT2302-0721C
			*** CONNECTORS ***	
	CD3806	9JD06CH282504	CORD CONNECTOR	CH282504
	CP3808	9JD069S2F0629	CONNECTOR PCB SIDE	A2001WV2-15P
	CP3809	9JD069S2E0629	CONNECTOR PCB SIDE	A2001WV2-14P
			*** FUSES ***	
⚠	F3801	9JD0805T02501	FUSE	SCT 2.5A
⚠	F3802	9JD0805T02501	FUSE	SCT 2.5A
	F3803	9JD0835A02505	MICRO FUSE	20N_2500FSW
			*** THERMISTOR ***	
⚠	TH3801	9JDDSQFVE4R0L	THERMISTOR	4D2-22LCS
			*** OTHERS ***	
	CP3803	9JD06GG2E0019	CONNECTOR PCB SIDE	A2001WR-14A
	EL2401	9JD124116281A	EYE LET	XRY16X28BD
	EL2402	9JD124120301A	EYE LET	XRY20X30BD
			OPERATION PCB ASS'Y	
			*** PCB ***	
	PCB270	9JDA54Z01A270M	OPERATION PCB ASS'Y	CEJ550A
			*** SWITCHES ***	
	SW2201	9JD0504101T34	SWITCH,TACT	EVQ21505R
	SW2202	9JD0504101T34	SWITCH,TACT	EVQ21505R
	SW2203	9JD0504101T34	SWITCH,TACT	EVQ21505R

ELECTRICAL REPLACEMENT PARTS LIST

SW2204	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2205	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2206	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2207	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2208	9JD0504101T34	SWITCH,TACT	EVQ21505R
		*** OTHERS ***	
CP2202	9JD06GG230019	CONNECTOR PCB SIDE	A2001WR-3A
		TUNER PCB ASS'Y	
		*** PCB ***	
PCB290	9JDA54Z01A290M	TUNER PCB ASS'Y	CEJ569A
		*** COILS ***	
B5805	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
		*** TUNER ***	
⚠ TU5800	9JD0164Y03008	DIGITAL TUNER	TDTW-S126D
		*** OTHERS ***	
CP5801	9JD06GF2G0010	CONNECTOR PCB SIDE	WD-00027-R
SH5801	9JD126D000045	TERMINAL PIN	YQ-12
		AND OTHERS	
		*** COILS ***	
TR4201	9JD02AHB9A972	CORE,FERRITE	W5T29X7.5X19
		*** CONNECTORS ***	
CD302	9JD06CH143904	CORD CONNECTOR	CH143904
CD3803	9JD06CH2E1405	CORD CONNECTOR	CH2E1405
CD4200	9JD06CH254602	CORD CONNECTOR	CH254602
CD4201	9JD06CH2E2602	CORD CONNECTOR	CH2E2602
CD4301	9JD06CH233302	CORD CONNECTOR	CH233302
		*** AC CORD ***	
⚠ CD3810	9JD120Q155804	CORD AC	P205-1324-4
		*** OTHERS ***	
BT001	9JD141L003022	BATTERY,MANGAN	R6P(AR)2P WO GM PET EU
BT002	9JD141L003022	BATTERY,MANGAN	R6P(AR)2P WO GM PET EU
CD2801	9JD06EARU2208	CORD CONNECTOR	EARU2208
⚠ SP301	9JD070Y056003	SPEAKER	S0412F03
⚠ SP302	9JD070Y056003	SPEAKER	S0412F03
TM101	9JD076B0RV011	TRANSMITTER	ETR0088-010510LF
⚠ V2801	9JD09EV126019	LCD	V260B2-L01

RESISTOR

RC.....	CARBON RESISTOR

CAPACITORS

CC.....	CERAMIC CAPACITOR
CE.....	ALUMI ELECTROLYTIC CAPACITOR
CP.....	POLYESTER CAPACITOR
CPP.....	POLYPROPYLENE CAPACITOR
CPL.....	PLASTIC CAPACITOR
CMP.....	METAL POLYESTER CAPACITOR
CMPL.....	METAL PLASTIC CAPACITOR
CMPP.....	METAL POLYPROPYLENE CAPACITOR

SHARP

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